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Republican Indonesia Tries Its Wings

With 43 Illustrations and Map 32 in Natural Colors

W. ROBERT MOORE

Ancient Mesopotamia: A Light That Did Not Fail

With 35 Illustrations and Map 24 Paintings

E. A. SPEISER H. M. HERGET

The Merrimack: River of Industry and Romance

With 34 Illustrations and Map 21 in Natural Colors ALBERT W. ATWOOD B. ANTHONY STEWART and JOHN E. FLETCHER

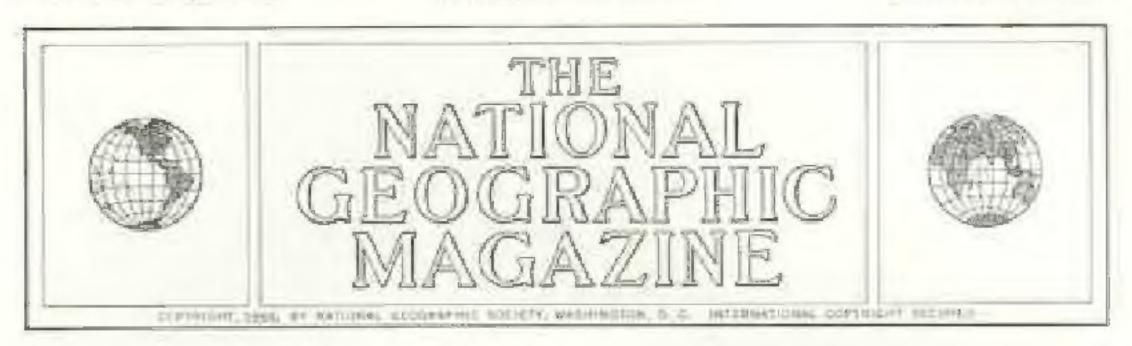
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## Republican Indonesia Tries Its Wings

By W. ROBERT MOORE

With Illustrations from Photographs by the Author

HE NEW Republic of Indonesia has spread fledgling wings—the wings of a Garuda.

The Garuda is a mythical golden bird of ancient Oriental legend, but, as portrayed on Indonesia's new national coat of arms, it looks remarkably like our own American eagle. It carries in its talons, rather than its beak, the motto Bhinneka Tunggel Ika (Many Remain One), which has almost the same meaning as our E Physibus Umam.

The similarity is hardly a coincidence, for Indonesia's leaders like to compare their five-year struggle for independence with our American Revolution. Many of their slogans have been taken from words of George Washington and Abraham Lincoln. The Republic's constitution, in part, is patterned after ours.

### 80,000,000 People on 3,000 Islands

Physically, Indonesia bears little resemblance to the United States. Somewhat smaller in land area than our Thirteen Original States, Indonesia consists of a chain of 3,000 lush volcanic islands strewn along the Equator all the way from the mainland of Asia to the northern tip of Australia, a span of 3,000 miles (map, page 6). On these islands live 80,-000,000 people, nearly as many as in Japan.

Twice in the last five years, while in the Far East, I had made tentative plans to visit the islands. Both times beavy fighting had broken out to halt my going. Last May, in Bangkok, Thailand, I received a cable that my application for a visa was approved, provided I made my own arrangements for accommodations.

"That may mean sharing a room with others

or staying with friends," said the genial consulwith whom I talked. "Our hotels are crowded, but I believe that such a condition is not restricted to my country."

I agreed.

"Have you visited Indonesia before?" he asked, without looking at the multiple copies of the entrance form I had filled out.

I mentioned that I had been in Java and Sumatra many years ago and had done articles and color photographs on both islands.\*

"Then you are familiar with my country, but you will find many changes now," he said.

### Indonesians Hail Merdeke (Freedom)

One of the first changes I found when I reached the islands was in the place names. Dutch names, many of which existed during the 300 years of colonial rule, are gone. Indonesian ones have taken their place.

Flying to Java, I landed at Djakarta, new name for old Batavia. Buitenzorg, formerly the residence of the Dutch Governor General, inland in the mountains, now is Bogor. Government offices and streets bear Indonesian names.

The big rectangular greensward in the conter of the modern section of Djakarta, once known as the Koenigsplein, has become Lapangan Merdeka (Freedom Place).

Merdeka (Freedom), a key word among the Indonesians ever since they announced their independence immediately following the capitulation of the Japanese in World War II, is

"See, in the National Geographic Magazine: "Among the Hill Tribes of Sumutra." February, 1910, and "Through Java in Persuit of Color." September, 1929, both by W. Robert Moore.



Java's Batik Artists Create Designs on Cotton with Wax and Dye

Protective was, applied to the fabric, prevents the dye from penetrating noncolor areas. After dipping, the was is boiled off. For each fresh color, the process is repeated. Women (above) nutline designs with tiny tubes of was. Men use large brass stamps. The pair on the right cover one area in two stampings.



Propose Bristol, Place Star

### Strung on a Roasting Spit, This Suckling Pig Soon Will Become a Barbeene Dinner

The laughing Balinese gives assurance that roasting will be done to a turn, for his job is to rotate the ply over a charcoal tire. The girl ladles in stuffing trade of chopped herbs and condiments. Roast pigs are offered to gods at temple festivals, and caten later by the people.

seen and heard everywhere. There are Merdeka streets, squares, and botels; "Merdeka" also has become a formal salutation.

Today Djakarta, capital of the Republic, is busy and congested. In hotels I shared rooms with as many as five other persons. Houses are at a premium.

### "Band Music" for Pedal-cab Riders

Among the motorcars, trucks, and squadrous of hicycles that crowd the streets, I saw only a few of the old familiar two-wheeled pony carts. Most of them have given way to the beljaks, three-wheeled bleyde-rickshas in which the rider sits precariously facing traffic while a man pedals from behind. painted, and labeled with equally colorful names, they are the poor man's taxis.

In some I heard odd musical humming sounds as I rode. Finally I located the source; between supports underpeath the chairs pedalecs stretch long rubber bands which vibrate

in the wind when the betjaks are in motion.

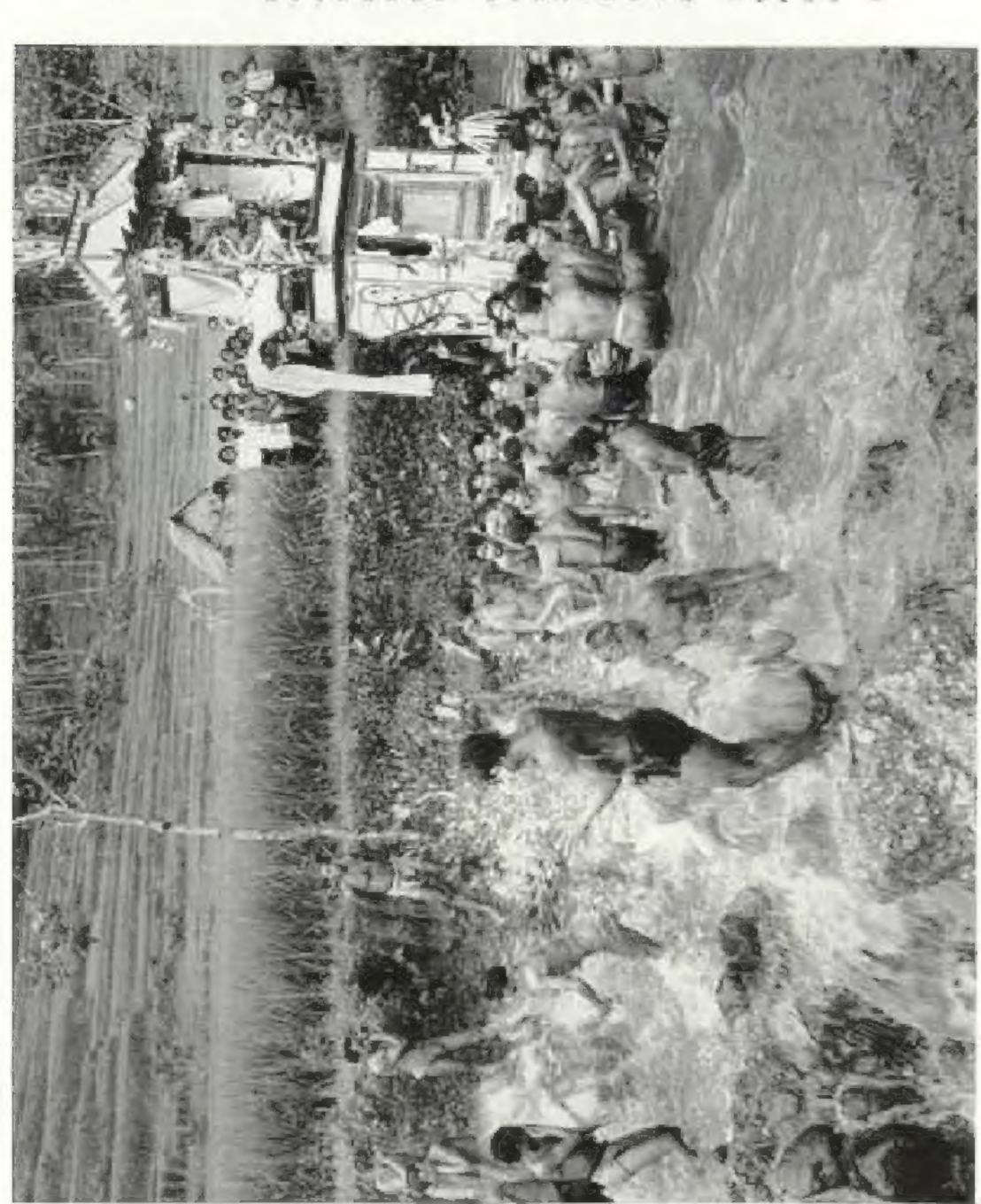
Djakarta's streetcars seem always jammed to capacity. I was advised to shun them, for fountain pens and pocketbooks are apt to disappear. During the recent years of strife many lawless persons have gravitated to the cities, where they can 'pick' an easy living.

Many streets in old Batavia are unsafe to travel at night. By day, however, I roumed narrow lanes in the old section, saw the numerous Chinese shops, and watched Javanese womenfolk washing clothes, vegetables, their youngsters, and themselves along the canals,

I priced black-market American cigarettes sold by street hawkers and found that, at the bank rate of exchange of roughly 71/2 rupish (guilders) to one United States dollar, they

cost 90 cents a package.

One popular local brand of cigarettes which in Djakarta cost me the equivalent of 40 cents, I bought later in Djokjakurta and Bali for 33. cents; in Sumatra they were 80 cents.



# Festive Balinese Mourners Carty a Bier Across a Stream to Cauluse Water-listing Demons

These villagers gally uplant another to demonstrate happiness over a triend's release front earthly cares. At road intersection they thrice turn the function carriage around to prevent evil spirits returning to the family frome. Fitter they give liker and body to the erronation pare.

Bairnese spend much money and clador at e-floot on cremations onto for years to raise functal funds. During such form waits the body remains buried trail cremation honors can be paid for. Meanwhile, additional deaths may occur in the tawity. In each cases all the dead are cremated in a single recements.

At one Baliness home the author taw mourners making a bier of hambon and paper. A coconutoil lamp turned at the gateway and lood offerings were aprend around the cottin.

Describering Black for



companion (in palifiary Through Djakarts Java. During Indottesia's fight for freedom, the Sultan led Republic's George Washington, Their First President. and Sulface mother, is the infant Fifty-year-old President Soekama, son of a Javanese father and Ballinese mother uniforms is Nice-Premier Hamengku Buwano IX, Sultan of Djulijakarda, Throng Around (Freedom), Indonesians, Shouting "Merdeko,"



The black-market exchange on smuggled American dollars, I was told, was anywhere

from 25 to 30 ruplah for a dollar.

Leaving Djakarta I took to the wings of the Garuda—the Garuda Indonesia. The Garuda airways form an elaborate network throughout the island chain, lluking the larger cities.

Formerly operated by the Dutch, the airline now is owned by Indonesians; management is jointly controlled. The pilots are

Dutch, the office force Indonesian.

I flew first to Djokjakarta (usually abbreviated to Djokja), capital of the old sultanate of central Java, and for a time center of the

Republican movement.

It was late May and the dry season supposedly had begun. But the night before I teft it rained heavily. The morning dawned clear, and, as was often the case while traveling in Indonesia, I saw dawn from the airport.

Rains had washed the sky clean of dust and smoke. Below as spread the island's sparkling, gardenlike plains; steep volcanic mountains were sharply etched on the horizon to the south. Rice fields formed vivid green-and-gold patches or shope like silver where diked plots had just been flooded for a new crop.

Terraces stairstep every ravine and riverbank and contour the gullies. Other terraces clamber up the steep sides of the mountains (pages 28 and 29). Form villages cluster in groves of coconut palms and other trees beside the open plains and deeper green planta-

tions:

### Plumes Carl from Brooding Volcanoes

Less than an hour out of Djakarta we came alreast of Tjareme volcano, passing so close that our left wingtip seemed almost to brush its wooded slope. Although we were flying at 8,000 feet, the upper part of its cone tow-cred 2,000 feet above us.

Soon we passed still higher Slamet. Second highest peak in Java, it rears to 11.247 feet.

As we neared Djokjakarta, a row of sharp peaks loomed before its. From one of them, Merapi, issued a curling white plume of smoke (page 37). In all some 500 volcanoes form a knobbed backbone the length of the ladonesian archipelago. Sixty are active. Some are fire-breathing monsters, but the Island soil is rich from the ashes, mud, and lava that have pouted from their craters.

At Djakarta we had passed through customs before we boarded the plane. When we acrived at Djokja, we had to go through customs again. Health authorities checked our vaccination certificates to see that we were immune to smallpox. Those without

certificates and those who left them behind had to roll up their sleeves and be vaccinated by the doctor.

Throughout my tour in the islands I found customs counters at almost every airport. Now that Indonesia, since August 17, 1950, is reorganized into a single unified Republic, rather than a federation of States, such formalities may eventually be abandoned.

Since the country has gained independence and its capital is now Djakarta. Djokia no longer is so active as when it was headquarters of the Republican forces. Comparatively little damage was done to the city when the Dutch, in 1948, moved in during their second police action.

### Art of the Batik Makers

While wandering about the city I saw the world-famous battle makers at work. Bothwith metal block stamps and by hand they applied wax to the cloth to cover it for the various stages of dyeing. Managers complained that they were forced again to use native vegetable dyes instead of synthetic dyes from Europe, but the sarongs and scarfs they produce are softer in tones for the shortage (page 2).

In other shops I found silversmiths hammering and polishing pieces of silver. Flandicraft workers also out beautifully filigreed fans, waying (shadow play) puppets, and dancers headdresses and neckpieces from gout

skin and buffalo hide.

The large army of buildings of the Kraton, or Sultan's palace, seemed almost described. Batik-turbaned retainers who showed me around wore wavy-bladed krites tucked in the back of the belts girding their long sarones.

Hamengku Buwono TX, the Sultan of Djokjakarta, is absent from his palace much of the time, but he returned briefly during my stay. Young and progressive, he had commanded the anti-Dutch Republican forces and

is now Vice-Prender (page 5).

Traditional Javanese dances are carely given at the palace now, but one of the scholarly princes. Tedjakusuma, conducts a school to train young students in the classical art. When I visited his school votageters no more than 7 or 8 years old were learning difficult postures, how to move arms and legs in proper rhythm, and how to flutter their fargers.

Later I had opportunity to photograph mature dancers enacting episodes drawn from ancient Indian epics, the Makabharata and Ramayana,\* while rich mellow gongs and

<sup>\*</sup> See "Parrantry of the Siamese State," by D. Sonakul National Geographic Macazine, February, 1941.

drums of the gamelan (orchestra) furnished

the music (page 31).

Out in the countryside around Djokja men and women worked in the rice fields. Every stage of rice growing can be seen within the radius of a few fields, for tropical Java has no well-defined seasons (page 35).

to some fields harvesters nipped the ripened heads with small knives held in the palms of

their hands.

Elsewhere groups of farmiolk waded nearly knee-deep in water and mud, transplanting young rice seedlings. Farmers scratched dry soil with primitive ox-drawn plows or charned the mud with wooden-toothed harrows.

### Centuries-old Farming Methods

When the huge stone Buddhist temple of Borobudur and the Hindu temples of Prambanan were built on the central Java plain some 1,100 years ago, farmers were probably

using the same methods as now.

To get to Borobudge, some 20 miles northwest of the city, I had to take the long way around. A bridge was under repair. Along the way we met many oscarts coming to market. Sides of the cart bodies and their big woven canopies are decorated with vivid

painted patterns (page 32).

At Magelang I saw dramatic results of the 1948 fighting. Most of the large buildings in the city had been damaged or completely wrecked, either in military operations or in the scarched-earth tactics adopted by the Indonesians. En route we also saw a large sugar mill that had been smashed and burned into a junk heap of twisted girders and broken machinery.

I had seen ancient Borobodur before, but ugain it was a thrill to swing around a curve in the highway and see its terraced pyramid and stone dagobas rising above a low hill against a backdrop of higher green mountains,

Trying my legs on its steep stairways and walking around its carved-wall terraces, I appreciated how grandly the 9th-century Buddhist artists built. They encased a whole hill-top with stone, pictured the life of Buddha in deep carvings, and climaxed the temple crown with numerous Buddhas set in latticed stone shrines (page 30).\*

Apparently early Buddhists and Hindus dwelt peacefully side by side, for only a few miles eastward from Djokja are the extensive ruins of Hindu-built Frambanan (page 27).

Despite the rebuilding necessary to erase recent war destruction, I saw workers busily reconstructing the fallen stones of ancient Prambanan, a task begun by the Dutch. The job is like trying to piece together a colossal jigsaw puzzle, for within its walled enclosure stands the large shrine to Siva, seven smaller shrines, and scores of small cell-like buildings.

Though Indonesia now has its independence, the country is plagued by many problems in its return to peace. There is still unrest among some dissident groups. When I asked to go to Surakarta (Solo), seat of the second sultanate, just northeast of Djokja, I was advised not to go. Some young hotheads had taken to stoning cars on the highways.

Supporters of the David Islam (World of Islam) in the mountains around Garut, in the southern portion of western Java, are unreconciled. Many young men who fought with the Dutch also roam the countryside, using their weapons to compensate for their unem-

ployment.

In the vicinity of Surabaja, chief city and important neval base in eastern Java, bands

of guerrillas were active.

During the three years of Japanese occupation there was considerable dislocation of agriculture. Food was not allowed to be transported from one district to another; each district had to become self-sustaining. Consequently, lands which grew such export crops as sugar, tapioca, and Sumatran tobacco were turned to raising food.

The subsequent struggle between local and Dutch forces not only delayed the return to normal but added to the destruction. However, the 1949-50 rice crop of about 6,500,000 tons is almost up to prewar levels. Native rubber production is above prewar years, but plantation rubber is about 70 percent of its normal amount.

Because of large postwar investments of foreign capital to rebuild oil installations in Borneo and Sumatra, oil output is the highest over.

In 1949 the yield of crude oil was 43,206,000 barrels, and refineries, importing some crude, produced 47,531,000 barrels.

### Bali Seems a World Apart

It is a flight of only 144 hours from Surabaja to Denpasar, on the island of Bali. Most of the flight is over land, for, geographically, Bali has escaped being attached to Java by only a little more than a mile-wide span of sea.

This has been an important, if narrow, water gap. Crossing it, I felt I had reached a distant land and a different age.

From the 15th to the 16th centuries, when Islam swept over Sumatra and Java, its influ-

\* See "Postwar Journey Through Jave," by Rounds Stuart Kain, National Geographic Magazine, May, 1948.



Balinese Dancers, Faces Intent Beneath Sunburst Crowns, Await Their Cue

Bali's colorful dances, interrupted by the Japanese, have resumed as happily as ever. Indonesia's independence struggle left the blindul island undisturbed. These girls wear the djunger headdress at a Denpasar temple.



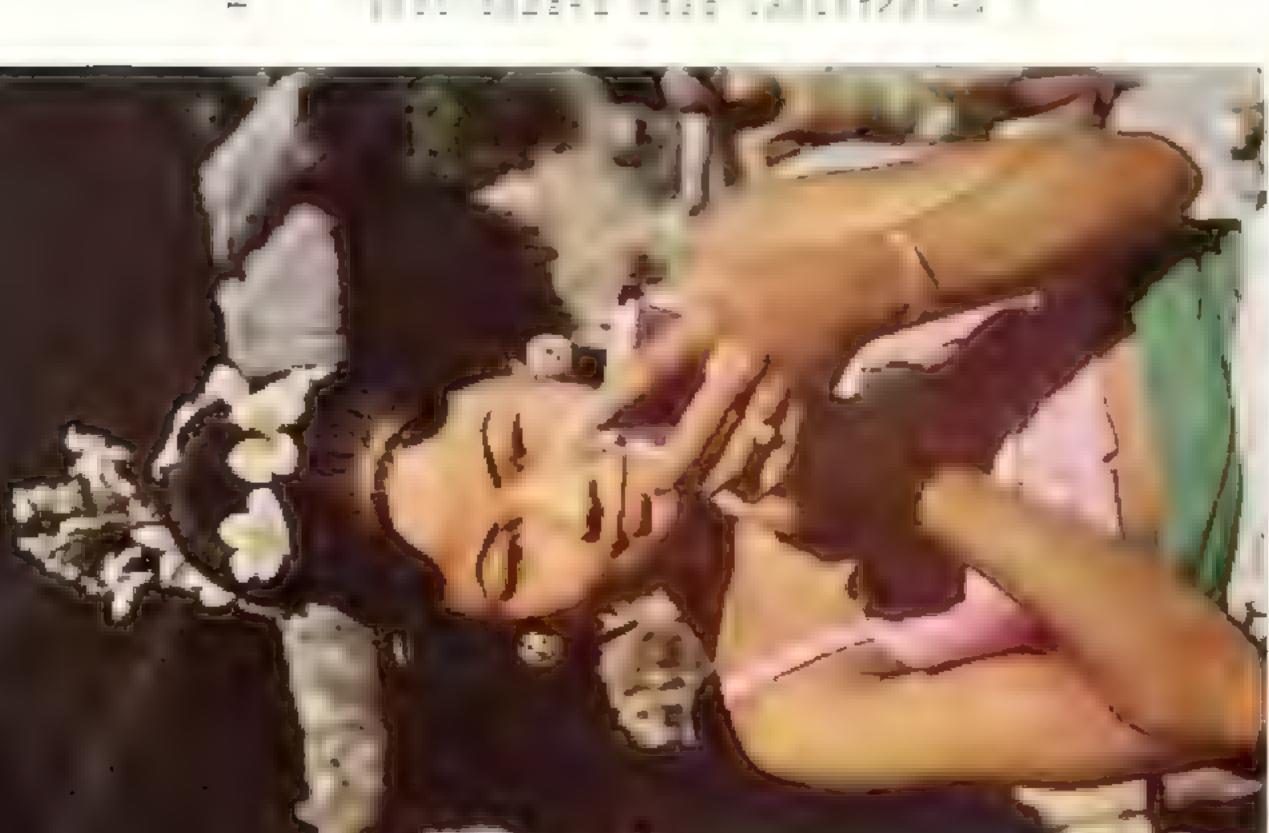
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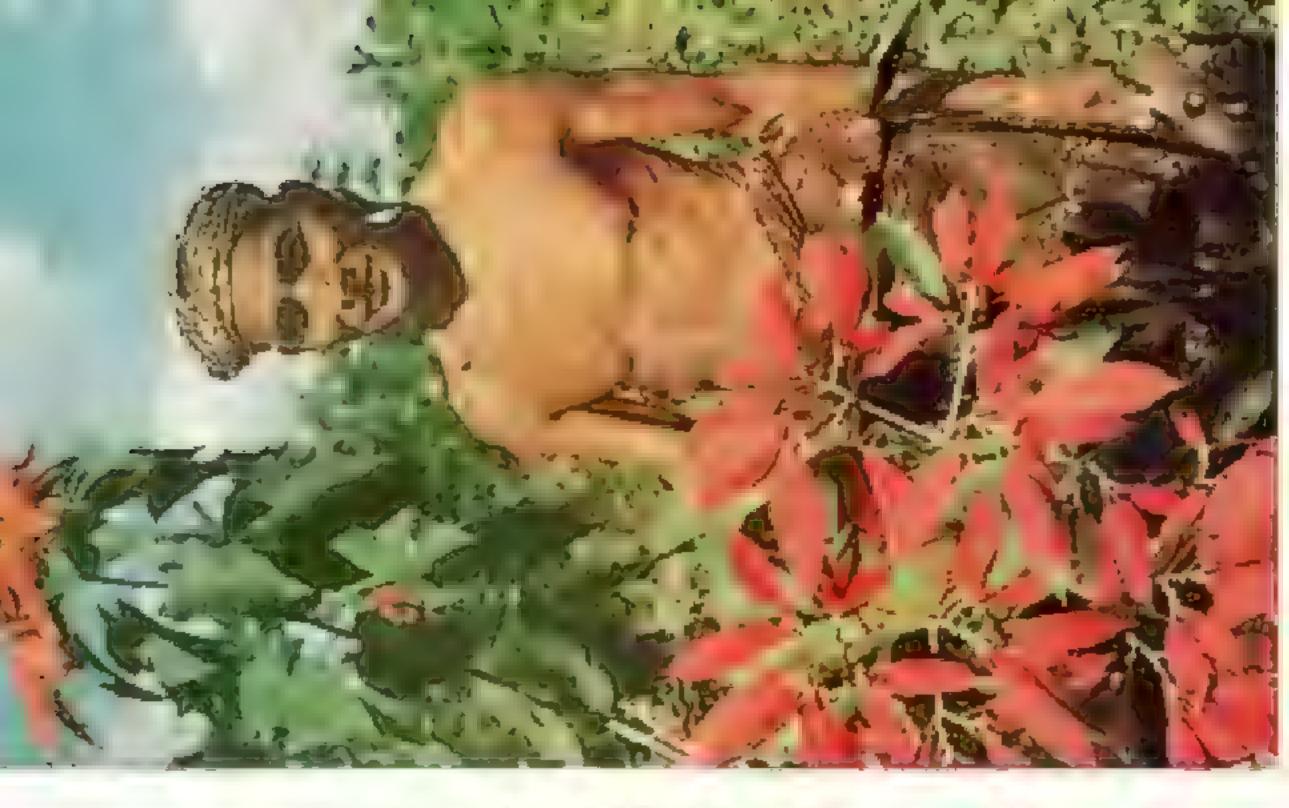


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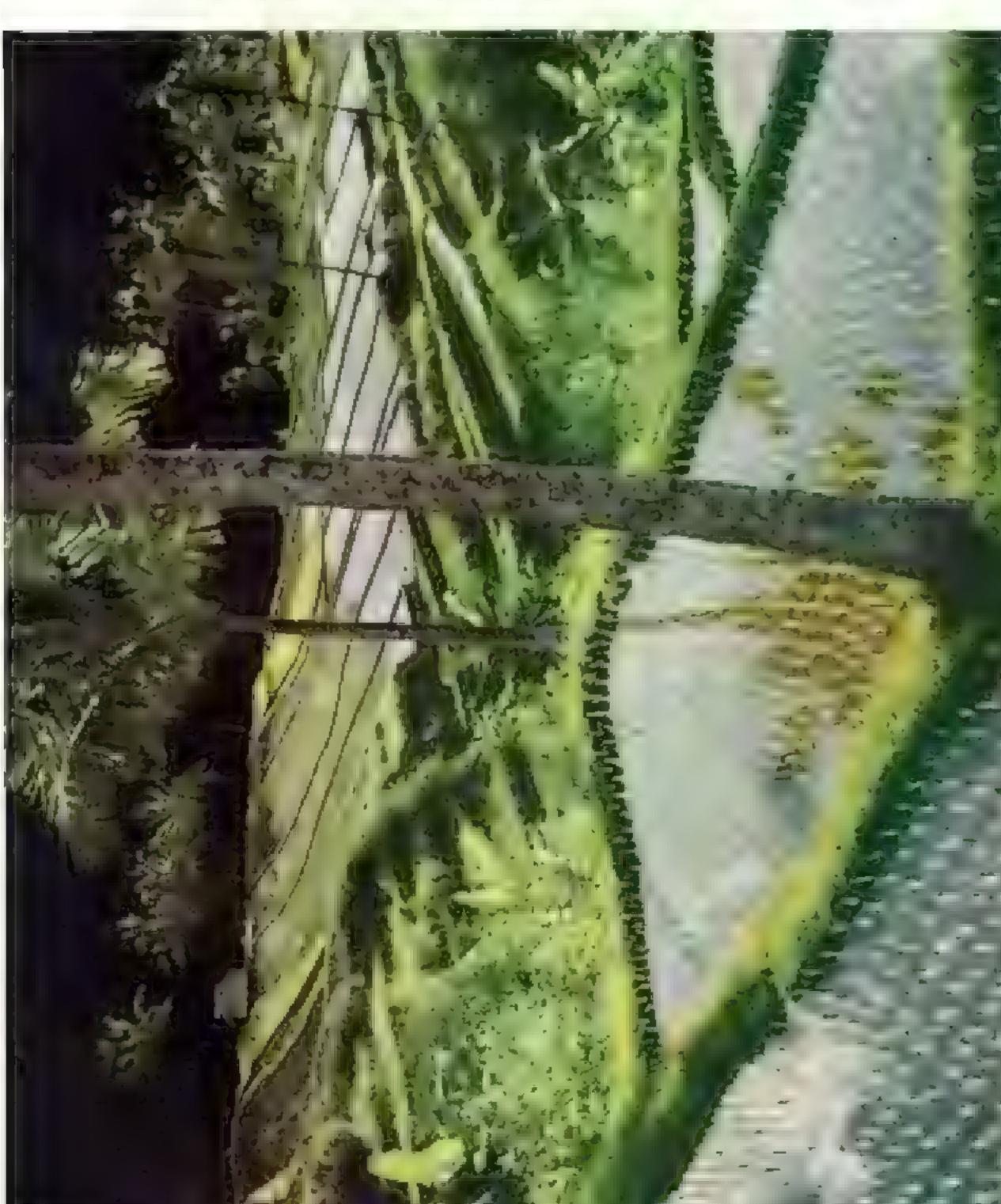
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Bar's Three-headed Gods Are Hindu. Temple's Soft Stone Con Be Corved Like Baked Char

ence halted at the shows of hali. Instead of rusing mosques to the Prophet, the Balmese continued to both elaborate stone and brick temples to their Habita gods—and still co.

While Java, Sumatra, and other islands bear new war scars, in Bali it seems admist as if

war never had been.

The Japanese, I was told, had balted dances and large temple feasts, but again communities have organized troupes of dancers, and the thythinic gamelons seem not to have missed a single limit of their gongs.

Hindu temples feasts, glittering dames, empling music, weird stone gods, graceful golden-bronze bodies, cocklights, beity volcations, and spectaging rice tetraces—all are here. Rall is anchanged, unsmaled,\*

I traveled anywhere I close and encoun-

tered only smiles and cordiality.

The Edinese love their island and their gods. Tilling the plains and steep mountain temples, they build temples to their rice god dess (page 25). Grewing commus, coffee, fruit, and other nontrigated cours, they dedicate a temple to that agriculture. Dancing, they entertain their gods and at the same time entertain themselves.

Many photographs and much copy have been made of the bare breasts of Bathorse worm n. Balinese in I am are shocked at the revelation of legs by Western women wearing aborts and abbreviated bathing suits.

Ball's civilization is ancient, its traditions and practices tested by time; their customs

suit the Balinese, so why change?

### I wing of Different Sexes Bud Luck

At a prossrouds near Denpasar I saw a small temporary shack with matting side walls and a thatch roof, set near a grotesque stone god. I

inquired what it was for

"it's a house for a woman who has given birth to twins," said the islander who was accompanying me. "A woman who has twins, a boy and a get, has to move from her own house and stay at a road crossing or a centerery for 42 days."

"What if the (wins are both boys or girls?"

mskerl.

"That's all right; it's bad lack only when they are a boy and a girl."

I asked if the youngsters were well and who

took care of the mother and children.

Yes, the babies were doing well. Relatives and the husband took care of the nother and brought her food.

"Let's go in and see them," the man sug-

gested.

We went to the flap entrance, annuanced our presence, and were immediately invited

unside. The father was there, 6 ndling his young son; the mother, nursing the girl. both babies were healthy and afest.

They have to stay here eight days more,"

the fail er said

When the 42 days are up, the tastebed but is lurred and the mother has to go through a contract of the according to the meantime is rebailt.

### Teath Fited as Mark of Matarity

Farther along the road, as we passed through a small village, we saw several people carrying gifts into a mud-walled enclosure inquiry revealed that they were going to a

touth-tiling ceremony.

In the courtyard of the household a raised parillion had been built. In it was a bed, a man seated at the bead. On either side of the pavilion were racks filled with offerings of fruit, meats, rice, and flowers, built into tabbrilliant rones. Long decorative streamers hung from the pavilion.

Over at the side of one of the houses a tail that h-more i platform of handboo had been erected. On it sat a wispy-hearded Bruhman priest, alternately chanting prayers and tim-

kling a small bell.

Two youths in their early teens were to have their teeth fixed as a symbol that they had reached naturity. The "dentist," who sat at the head of the routh, had the boys bite into a piece of sugar cane. After studying the 'bite," he evened of the irregularities of the points of their teeth.

The poyst teeth snowed bittle difference after the family, but they had attained mature

position in the eyes of the community.

As I drove about the Estand, I saw a fantastic number of temples—village temples, family temples where members placed offerings to their ancestors, and personal temples, antines to Siva, Vistant, and Brahma. Tmy spirit shrines dot the rice fields.

Many of the lurse brick-and-stone structures seemed bonry with age, but on their gateways and walls carvings pictured hieveletiders, policemen on motorcycles, a goggled simplane pilot ace ming down among sculptured demons and gods, and a Detainman drinking beer!

The gray volcanic building strine is so soit that it weathers quackly in Bali's moist chronic. "Antient" shrines may be no more than 10 or 40 years old.

I watched workmen carving gods, density,

\*See, in the National Geometric Manager Ball and Funts East," by Marmerd Owen Williams. March 1949, and "Acust Adventures on the band of Ball " by Franklin Price Kantt, March, 1928

and flower electrations on two commended temples. Uttails took shape rapidly under their knives and chisels. The stone is lattle harder than sun-dened clay and can be scratched with the twobroad tpage 101.

Looping through vi layes on the plains parth of Denpusar, we came upon busy markets where district folk congregated with gmins, fruits, vegetables, and other wares. We can filed along the roads talancing heavy hardens on their heads (page 25) men carried produce on shoulder poles (page 32) or walked flore unancumbered

In some villages home workers slaped clay the sots on hand-tutted potter's wheels and stacked the "green" pots in killies for fising thewhere curvers chiseled and polished heati titully fashioned heads and upwers of wood, or etched delicate designs on home, how, and comput shells

Lazy sway-burked pigs granted in courtvards of family dwellings. Tattened, they are toted to market is big openwork bambao baskers, often piled into tracks like condword

Ah ng the roads we saw countless fighting cocks sunning in whiter cages or being groomed by their masters (page 26). When the Datch were nese they frowned upon Balinese cocktighting, but often turned their heads when non got together for a levely cocklight in one inconspicuous place.

One day we saw carrs parked by the roadside and people slipping off let a husby village paths. We decided to follow. A cocklight

was in the offing.

Under a thatened pavilion competitors were noted ing up birds of crual size and weight. Or monents selected, the men attached sharp metal spars to the cocks' less. There was a flurry of feathers as the first two birds clashed Evenly metched, they strack no lethal blow and were later separated. Some fights to the death last but an lastant.

### "Fishing" Food from the Air.

making a pieric of fice harvesting. Stort women and can crea who accompanied the harvesters mystraed me. They were carrying long stender reed wands like fishing rolls, but they certainly were put fishing

Although I have seen people cauch fish in thooded rice plots, these fields were Iry. Furthermore, the rods had no lines. Yet the wanten and youngsters seemed to be intently easting, but I stopped to find our what they

were doing.

They were catching dragonilies! The wands were smeared with sticky gum, more dragonilies disturbed by the harvesting were lared to

alight on the stacks. Some "custors" also flicked their poles at the winging ties and statched them from the air (apposite).

"What ro they do with them?" I asked

my companion.

"Eat them," he growered. "They are good "
Like most visitors to Bal. I went to see the
conturies—old tombs at l'anopaksiving, near
the center of the island. Some roler had
ordered elaborate monuments bewar for himself and his wives in the solid stone walls of
the canyon.

Not far distant another early monarch, warting with his neighbors, had a poison spring pour from the ground to poison his encoules, but the gods intervened. A sparking spring of pure water now gushes in its pause and is piped into a large community bath. One cutlet is dry as proof of the tale of the poisoned water

In the sacred ferest of Sangeh we bought pranuts and can for troops of greedy menors. When the pala (nutries) mess of the forest fall of their own accord, they are used

to build temples.

Three main roads cut across the island to its northern coast. The more ensterly one winds over the morentains almost in the shadow of Agong, also called the Peak of Rali, for It is the island's bishest. Its sacred symmetrical cone towers to more than 10,000 feet (p. 20).

Twisting up the highway to the mounta'n saddle, we came to Kintamani, a computer of finita Mani, meaning "Beautiful Ring," The ring is the rim of a huge we leaning trater within

which is rupped Lake that r

On the western side of the states rises a volcande peak, also called Batus, beveral times in earlier Balinese memory it empted. Once its laya that halted at the very gateway of the village temple on the plain below. In 1926 it empted again. The Dutch had definently evacuating the people when it became evident that the lawa stream was not going to stop as it had before. The abandoned village was completely engalied.

Batur's slopes and the old trater floor bor dering the take are blackened with the lave loss. Near its summit two or three vests.

on t small clouds of smoke,

If he mountain range extends east and west the fail length of the island. I need other lakes somewhat smaller than Hatte are crafted in the hills near the central stars island rotal.

Scarlet prinsectius prowing will in the corder highlands, splash the green stepes thage 14) In places they are planted as bedges around pastures where grace Bah's damaty-booked cattle. Tunous through not the archipelage, Bali cows are raised for slaughter rather than



"Fly Rod" in Hand, a Ralinese Woman Fishes for Deagondies

in this barvestione sport, flies flushed in the respects are entitled to aliebt on the winkly wand or are trapped on the wing by a delt cast. Later, they are fried and enten.

for milk. Because of heart depletion of St. 1 during the war, the number for export is still low

On the northern slopes of the mountains we wound intough coffee plantations and amid a magnificent actay of rice terraces (page 15). Diked sice plots mount the steep hideaces the gleantic staircases, but up these no grant costs, climb without getting his feet wet!

Singaradja and its adjacent port of Buleleng bear a strong imprint of the Dutch. Many of the buildings are Western style, and the palace of the district raja is decidedly modernistic

### Garls Wrap Like Mummies for a Dance

Returning to Despasar late one attermoon, I saw people carrying offerings to a temple and learned there was to be a djunger dance in the evening

Later I watched village garls transform hemselves into glamorous dancing queens with grease paint and resplendent garments.

Those who believe the girls of Hali never wear blouses should see how they gird themselves for the dance. Above long sweeping sarangs they wrap their lodies from armpits to hips like tightly encased accoons (page 13).

Eyelrows are darkened, then shaped with a razor, and a new hardens is painted on the girls' forebrans to fit their surfaces crown (pages 9 and 10). A genestabled recognite, armbands of gaded falgreed to be hide, and fresh franglyant fit wers in the hair form, lete the costume. White to is added between eyelrows and at the temples are special beauty marks of the dance.

Although the anger is primardy social entertunment, to participant would think of beginning a performance without first to being her lips to a cup of holy water and do ping a blossom as an offering on the spring

A theren girls and an equal number of less countely dressed young men scated themsolves in an open square, gards occupyout two facing sides, boys the other



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For two hours a circle of hundreds of intent balances and a tew fore un visitars watched lattern g fingers and sinules gross and balances as singing and arting alternated between the young near and gala, while a small pamelian played from the banyan tree "wings."

The djanger, I learned, began as the 'belook of Balmese entertainment some years ago, after a Malay Lacatrical troupe visited the island. I oday it has attained dignity and even at times includes episodes of classical folklore

Percential favorite of Balinese dances, however, is the legong, performed by two or three young girls to the accompanionent of a large orchestra of brase gongs, cymbals, drams, and need by two larges are page 120

to the leptone temporal gris page out and are proposed as a superior of the proposed and are proposed. A reciter teles the legent they portray.

### Legong Dancers Trained from Childhood

These young pirls are no amateurs. They train almost from the time they are babes; their careers end before they reach their teens.

I beeply exciting too, were the massed chants of the tach in the betjok, or so-called mankey dance, I saw one evening at Bong. Two hundred men, have to the walst, sat in concentric circles about a light standard upon which coconut-oil flames burned. Their corces rose and fell; as notes trailed off in one portion of the circle, they were caught up in another.

Our moment the bronze-bodied players were in sitting position, in another they had thrown themselves back, circle against circle; then suddenly arms and hagers flattered skyward as voices excitedly cried "Ke—tiak—ke—tjak—ka—tjak."

Northeast of Hall, in Makassar and Amboma, disturbances had broken out; instead of going there I flew back to Djakarta and there to Sumatra.

Sumatra is hig and, as we flew diagonally action its southern half to Padang on the west coast, it seemed almost uninhabited. Forests cover its plains and its rugged backbone of mountains. In only a few places do i I see rice fields and plantations.

About 355 times the size of Java, Samatra has less than a fourth the pupulation of that crowded island.

Fadang nestles smid coconut paims beside the sea. Its hurbor, Telukhajursumatera, some three miles away, formerly called Emmahaven, is an outlet for each and for farm prodave of the fertle Pagang Highlands.

At Fadang I shared a botel from with a young Dutch persculturist who maintained

large truck gardens and a dairy in the Bandung district in the hills of west Java. He had built up a sicable business furnishing bijakarta britels with safe fresh vegetables, sanitary milk, and butter. Quantities of vegetables, tables, especially lettuce and cut bilower, were also shipped to Singapore.

Now this enterprising man was waiting for a ship bound to Silv lgr, where he was going to investigate the Tapanuli district worth of Lake Toba (page 40). Batuk village head non there had offered him as much land as he wanted The plan was to put hundreds of acres under mechanical cultivation to supply vegetables, beef, and pork to buildness Asia markets,

Except for its sunny beach and sea breezes. Focuse's attractions are few. Close behind it, however, tears the mountain range into which twists a delightful highway that mounts to the Padang High node.

Through the kindness of Padang's mayor, I found an interpreter companion and off we started in a midget car for Padangpandjang and Bukitt rugi (farmerly Fort de Kock)

The read twists and squirms through the hills and up Anni River gorge, through which also clin he a cost railway. Lazuriant tropical trees and thick twining vines months the startles. At one bend in the highway a waterfall leaps from a cliff and plunges into a pool so these to the road that it spatters spray on windshields of possing cars.

At Pudangrandlang we saw a number of the strange upturned roofs of the Minangkahau hours. Hornlike gables rise so high above the minute of the roofs that the ridgepoles tok like a bread U.

### Musloms Funt Refore They Fast

Mosques that the highlands, for the Minang kalend people are strict. Mosleus. Many wither dressed in their holiday best walked along the roads, carrying trays balanced on their heads. Brilliant handwoven cloths rowered the contents of their head hundens.

They are taking foods to relatives," said my companion, "Young wives especially go to visit their mothers and mothers-in-law just before our hely month of Ramadan. I for fast month begins day after tomorrow and we do not eat their get the day. Frasting and well-dings come before or after our haly month."

We found the monfolk enjoying themselves in a different manner. Along the highways we passed stores of them with dogs trotting at their beels. Some carried guns. They were returning from a wild pig hunt; maddy and frayed clothes have witness to the roughness of the countryside. Sometimes several hundred men of the district go on these pig hunts.



Sheets of Row Rubber Demonstrate the First Stretch Between Trees and Tires

Tipst the ridge street sees. In dwelt chemicals, though a cold thought our tree in the Merce

It is dues. Let us all be a described in some the amateur of the street in a

Some 2.000,000 people of Sumatra below to the Morangkahar, tribul clans. They trace their descent through the maternal side of the family, and a young man mast many or table as or his nother's clan

I hrough . I per the term of a company we could see a portion of Lie Singkarak, a broad is one-e of water lock in green hills. A real and a broad of the interval of the lie of the Could blive of males away.

Moreon clauds thing to the tops of the mountains, denving us a view of the crest-of Suggalang and smoking Marapa, between we he roud passes before teaching bukit-on a compact to the mb high on right volume.

The reserve rescue the 'this pass to surely die Bukittinggi during the figuring, so the reserve the reserve to sugard I foodly from the reserve to a family dweller.

The even or I was introduced to some of

Next day I coassed the marro prises to the pumber of red peppers and the rest of the seriety of

### Calorial Crewd Throngs Market Place

Received the stable teles are a sure of the stable and the water tend the stable and the water pade tend the stable and spread their water pade and shipaper unbreday in the open market sprace.

thickletingel youngste - were enloying their

last day of school before the Ramadan holidays by going on a picuic bike arong the rist of the Kerbanwengat (Buffalo Gotge), a deep tavine carried in the volcanic earth at the edge of the town (page 38).

Mapwise, Sumatra is almost perfectly bulanced across the Equator. The line lies only a few miles ports of Bukuttinggi, but the condition of the road northward discourages

travel.

Years ago when I visited Sumates I sode by bus from Bukittinggi to Silmiga, around Lake Toba and to Median. This time I had to return to Fadang and fly across the Island.

It was a clear morning when we took off, Not a cloud covered the mountains, and, as we dow northward. I had a splendld view of the volcances

It was still clear when we crossed straight over the mid-be of Lake Toba. One can best gain an idea of the geography of the lake from the nir. It reminded me of a Pacine atoll in reverse. Instead of being a ring of land surrounded by water, with a central ligoun, Toba is an oval of water surrounded by Land, with more Lond in the middle (page 30).

Though the lake is more than 50 miles long and a third as wide, it probably has a smaller water area than any take of its size, for in its center rises Samosir Island, itself some 27 miles long and nearly half as

wate (page 34).

After reaching Medan, I motored back to Toba to see some of the Batak tribesmen who

live in the region,"

Most of the interesting old hampongs (villages) of the Bataks have vanished in treent years, But a few of the huge commonal long houses still exist. They have tall thatch roofs, uptilted at the envis, and carved wooden pables. Buffalo houses and pavilioned outbuildings.

It was Saturday, market day, when we visned Prapat, on the east shore of Lake Toba. Hundreds of Tobabese througed into market, afoot, by bus, and by boat (page 33).

Medan, administrative center for castern sumatra, is a spick-and-span modern town. Even the Chinese shop signs on many of its buildings fall to give it an Oriental appearance.

The acres of tobacca (page 21) and the oil paint and rubber plantations have made this portion of Sumatra highly prosperous.

### Elephant Shores Truck off Road

Northward from Medan are oil wells. Oilmen searching for new sources in the wild Achin district in the north somethres find more than just oil. On the trail one day a trucklead of drillers sighted an elephant and stopped. The elephant also sighted them and came up to investigate. Apparently disting the alea of the truck blocking the road, he began pushing on the front bumper and skidded the heavy vehicle list tward,

He then decided topon a new approach. Walking around to the side of the truck, he calculy showed it off on the roadside and walked and Fortunately, the car was not overturned. Unharmed, but with nerves a bit shaken, the drifters drove into camp.

Tigers also roam Sumatra's northern bush

103.19.

### Pipe Lines Bring Oil to Pelersbang

Leaving Medan, I flew southward to Polembang, Sumatra's "oil capital," near the southern end of the island.

Through the west coast of Sumatra is mountained, its east coast is a law plain, training off into mangrove swamps. A fleet of islands lies off the coast, and on Rangka, particularly, are extensive to prince.

l'alerabang lies far from the coast, but it seems almost an aquatic town. Part of it stands on stilts along the banks of the broad, muddy Musi River; a sizable portion also dents on its waters (page 37).

Innumerable floating houses are anchored near the banks by poles, so that they rise or fall with the stream but cannot drift away. Small sumpans, househouts, cargo houts, and but barges are legion. Plying up and down stream are ancient stern-wheelers.

Big freighters and oil tankers likewise ancher in the river, for only a short distance outside turn are two large refineries, one operated by Standard-Vacuum and the other by Shell. Oil is piped in from wells in the anterior.

Both refineries are virtually cities in themsolves, for, although many of the workers live in hown, hundreds of others live in trim communds. They have their own shops, markets, tecreation centers, and schools.

Palembang, like the Medan district, has oilpalm groves and rubber plantations. While roanting outlying roads, I saw workeren coltill god-part serie and "milkon, the col-

her frees (page 23)

In my trip through Java, Rall, and Sumatra I found that the "wealth of the Indies" is no obsolete phrase. The new Republic feels that with the reios of government in its own hands Indonesia will continue to prosper.

\*See "By Motor Through the Fast Coast and Batak Highlands of Samatra" by Melvin A. Hall Nathural Ecomarum Masagne, Juliusty, 1920.



### Market Carry Canking Late is Heads; Year Stagger under Shoulder Page

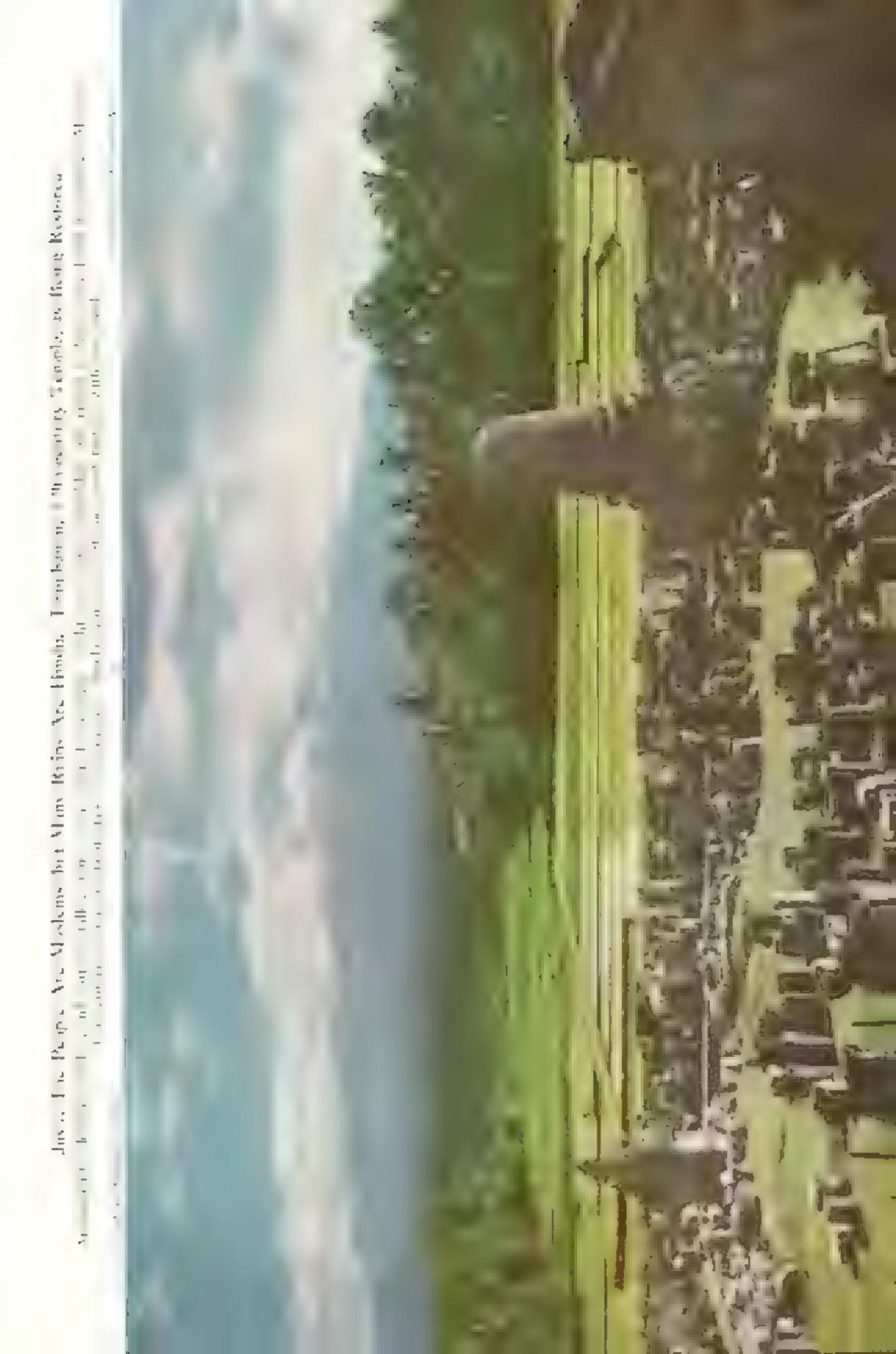
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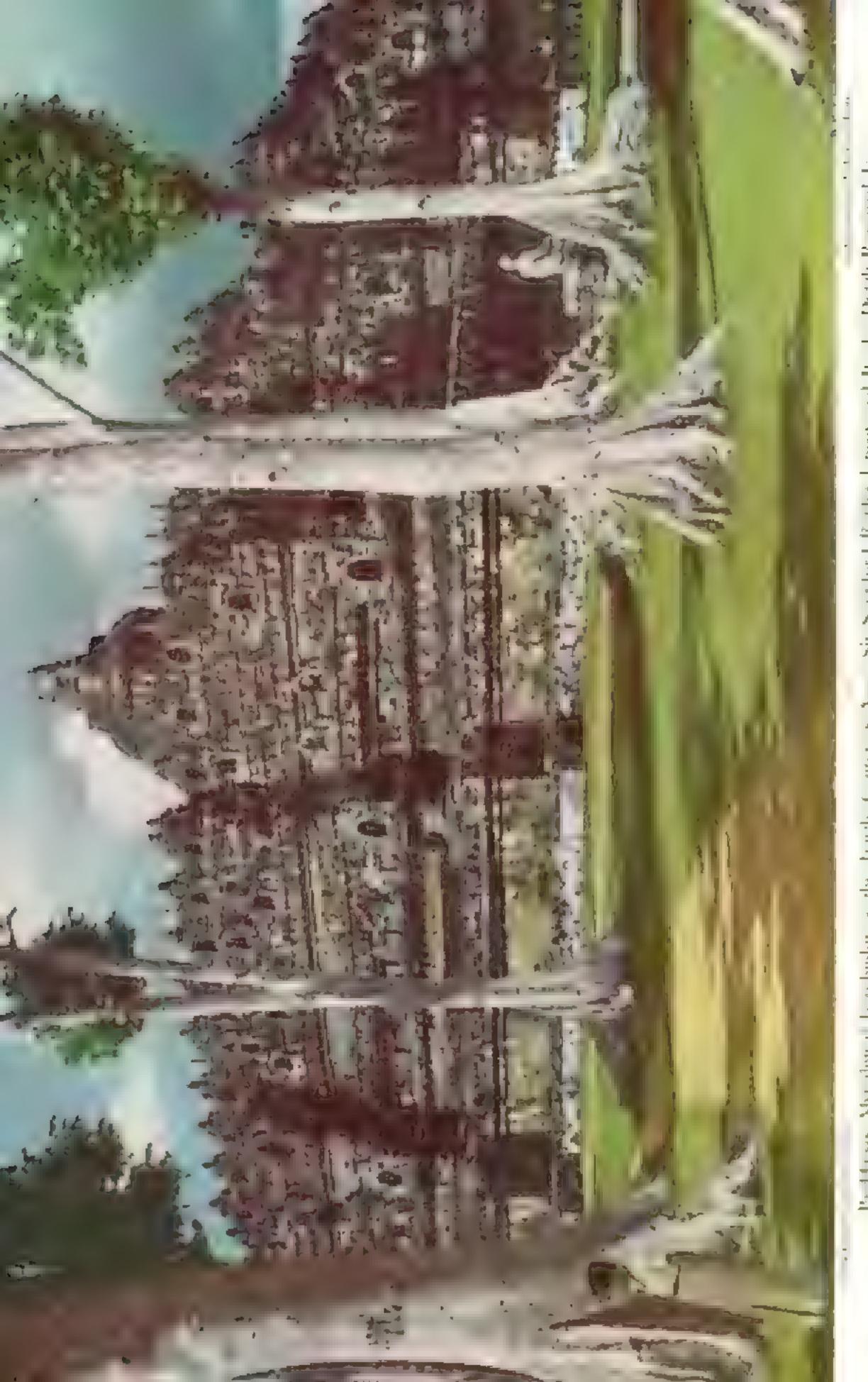


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# Baskers and Hats Weigh So Little that Boys Can Carry Big Loads

### Y Coptent Java's Painted Overer, Ramble Along Motor Highways





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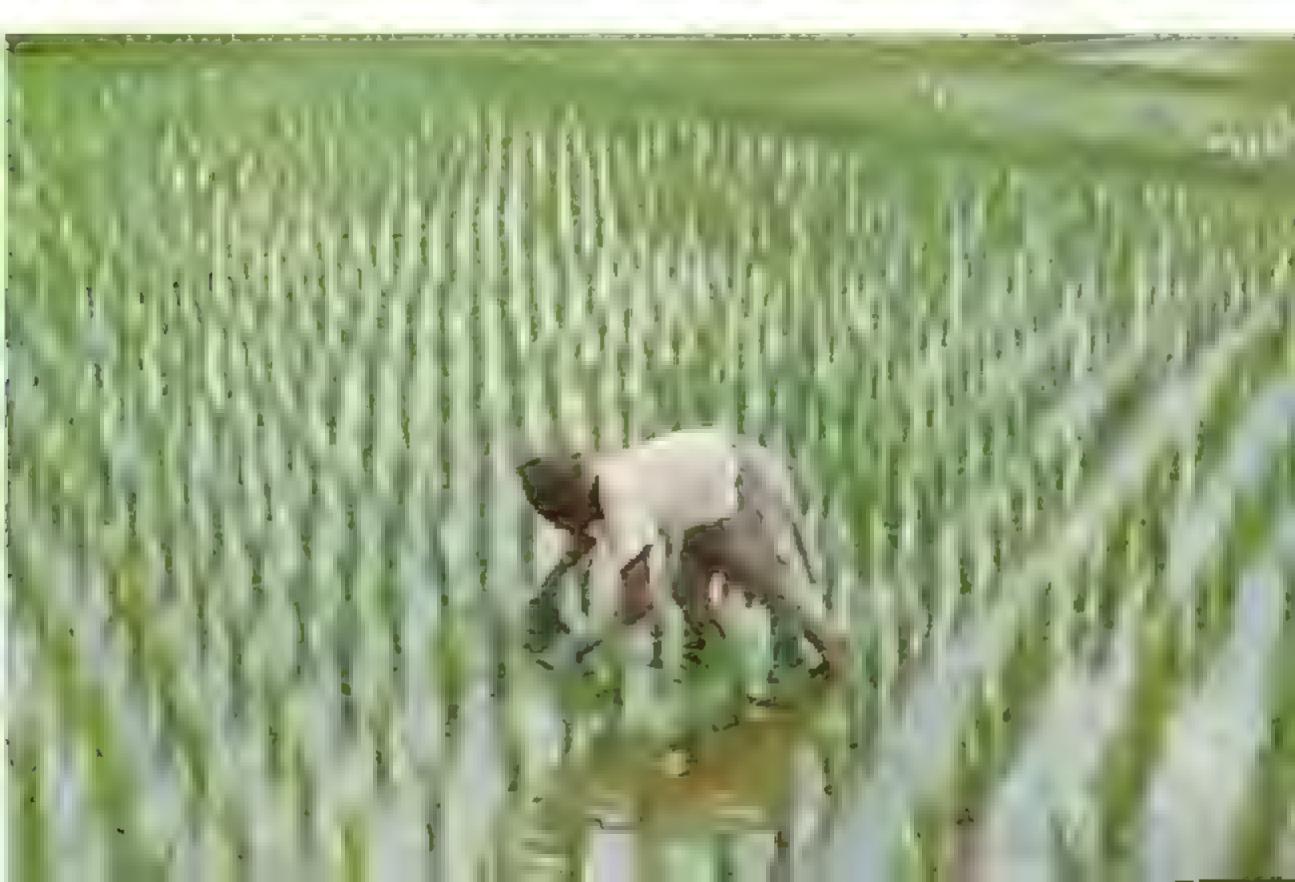


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### Pony Taxis Awaiting Fores Crowd Market Plaza in Bukittinggi

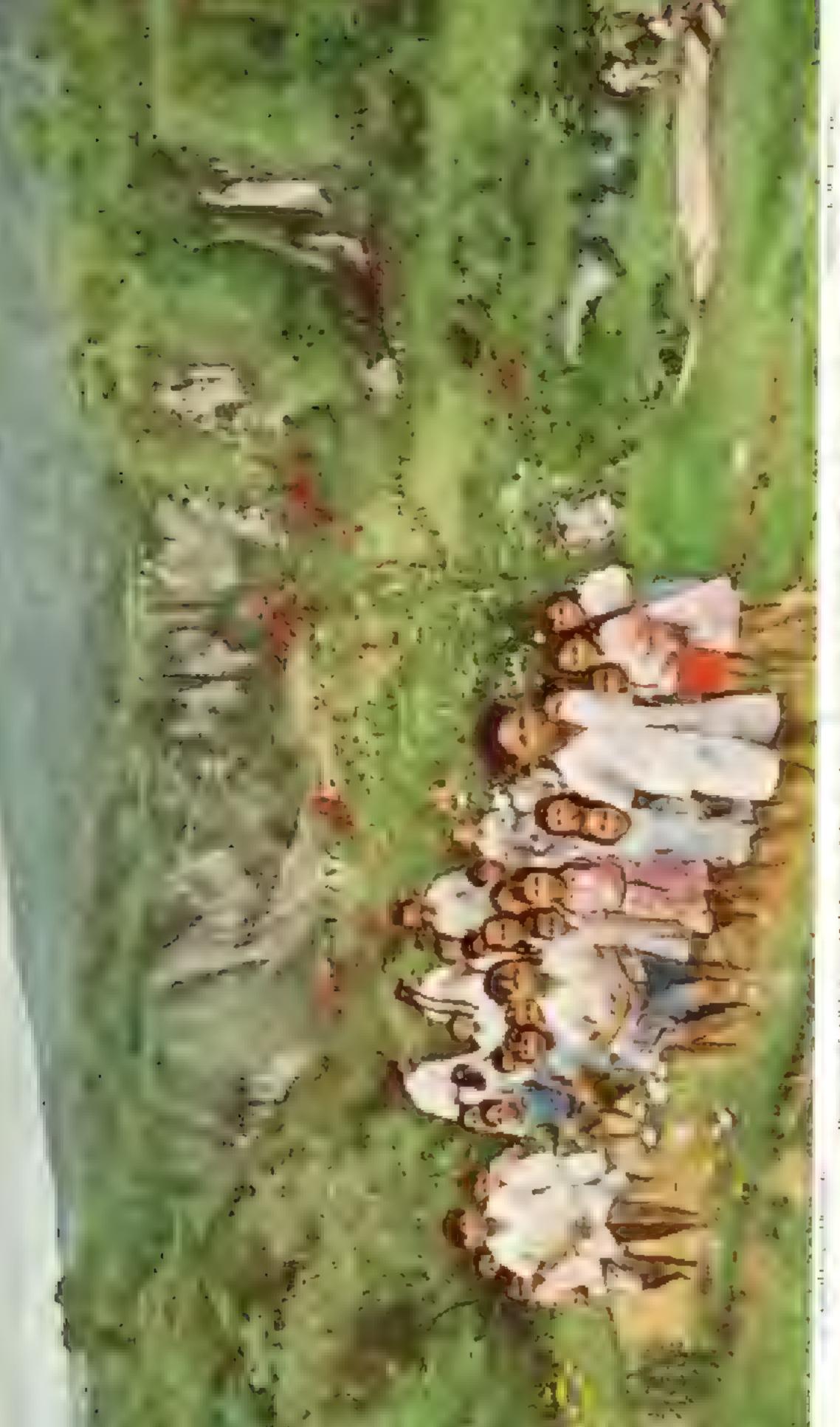
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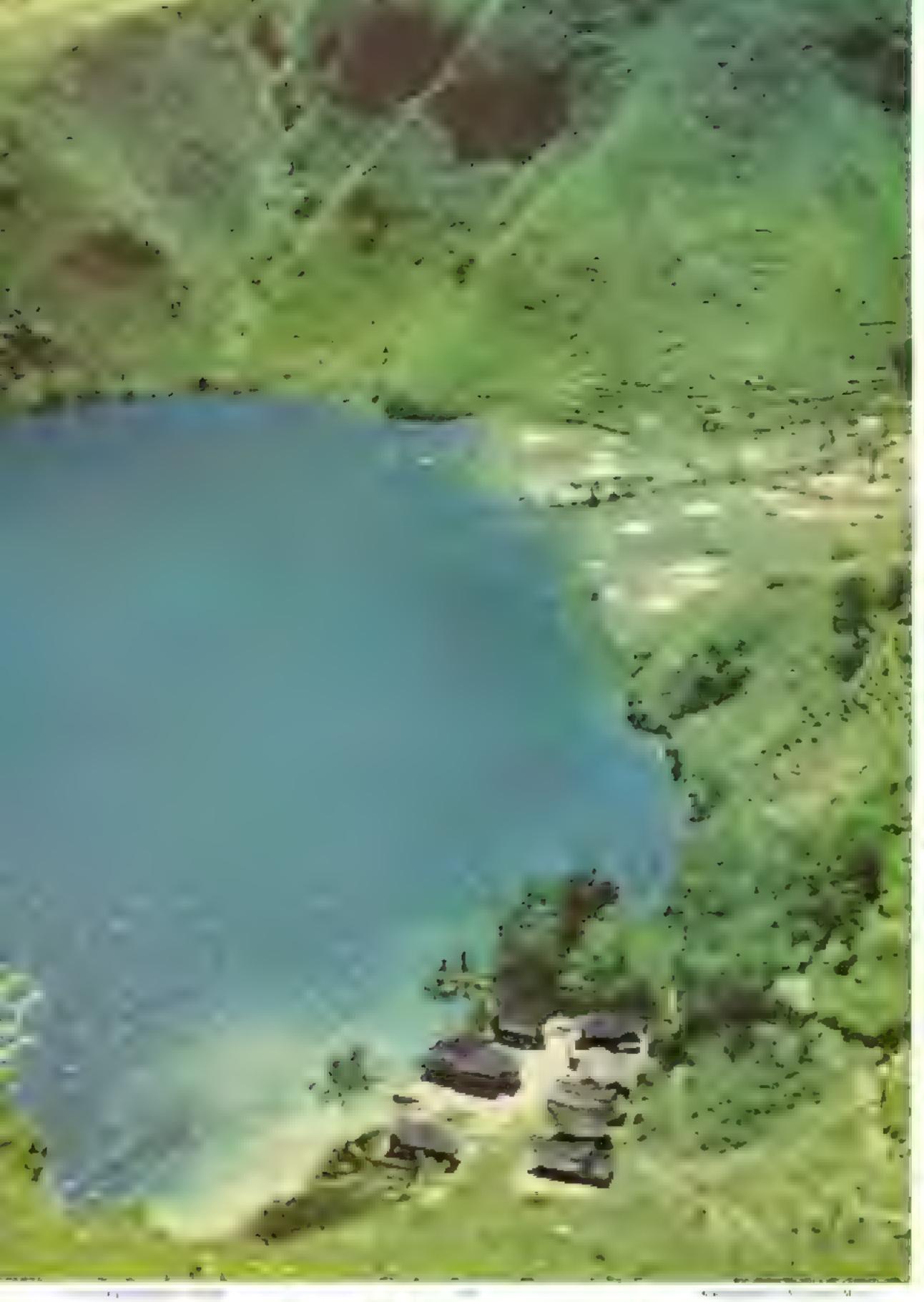
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### Ancient Mesopotamia: A Light That Did Not Fail

BY E. A. SPEISER

Leaveste Pheneter of the American Sevent of Oriental Remark in Society 1: Chileman of the Ilipartment of Countries and Countries Sandier, University of Pennsylvania.

TESOPOTAMIA, the Listoric Land Letween the Elgris and the Euphrates, has meant many different things

(map, page 45).

For readers of the boble, the name—or any one of is symonyms or mar symonyms may conjure up a picture of the Garden of Eden. the Tower of Bahel, or the Great Flood; or it may call to mind the stray of the patriateles, if Daniel and Nebuchadnezzar, of the handwriting on the wall

To some the name has associations with the Code of Hammerabi (page 85), the death of Alexander the Great, the explaits of Haran al Rashin. Others well think in this currection of Chaldean astrology, the Royal Tombs of Ur, or the fabrilius of deposits of the

Mid He East.

Mesopotancia gives tremendous perspective to cut modern civilization. In common with the rest of the ancient Near East—Egypt Palestine, Syria, and Iran Mesopotamia had put in more time anothe progress of mankind before the rise of Greece and Rome, that had chapsed between the Homeric are and our own times. When Rome, founded, according to tradition in the 8th century is c.\* was less than a handred years old, Nineveh in Assyria had come to the end of a 4,000-year career.

Let what Mesopotamia non-eved during several millenniums of steady progress did not came to an abrupt close when the Greeks took over. Through our channel or another, the fruits of that accompliated experience had arready spread to Europe, to excite the classical world and to be passed along eventually to our our our our ure as a Lyang and tangible force.

### Stored-up Evidence

Civilization is basically the sum of man's answers it any given stage to the promens of society and the to everse. Until man had begun to live in settled communities, after learning to sow as well as to burkest, there was little real opportunity to do much about such questions.

Ancient urban centers, however, leave remains that may be reconstructed into a meanargful record long after the cities themselves

ceased to exact 1

The Near Elast was the place where the first

or an centers emerged. To retrace our present civil action to its roots and see it as a growing organism, we must go back to the Near Fast the cradle of Western civilization.

Over much of its total course to date, the story of endurastory of enankind was but the story of caduraprogress along the Nile, the Tigris, the Euphrates, and the immediately adjoining areas (pages 51 and 58). Each of these ancient leads that has something significant to relate

If the testimony of Mesopotamia has fewer I horsel passages than that of its sisterlands, its clarity is due chiefly to two factors; one, the vast amount and the astronoling variety of written records that have come down to us form that country, a full and eloquent commentary in more than 2,000 years of pre-classical history; the other, the number and nature of the ancient Mesopotamian sites

These sites contribute their share to the the diffusivation of historic times, but are especially valuable as witnesses of cultural progress in the prehistoric age. In other words, the nuclear mounds of Mesopotamia have proved to be buried treasures in more ways than one

### tion Mounds Grew

Ancient pounds, to be sure, are not restricted to the watersheds of the Tights and the Euphrates. Mesopotamia, however, exceeds the neighboring lands in the number of artificial halfs that go back to the early stages of settled occupation. Since Egypt did not encourage to the same extent the building of cities in successive levels, that country is less well suited than Mesopotamia to take us down, rung by rung, through the centuries that presede written history.

fet us take as an example the site of Tepe Gawa, which is situated 15 miles querbeast of modern Mosul and ancient Nanevels (pages

\*Sec. in the National Carminarine Macazine. The Roman Way " by Frint Hampton, "Ancient Reme Brought to Lite." In Rhys Carpenter, with 32 dis in color from paintings by H. M. Herget, all November, 194.

The Greek War," by Eddly Hamilton: "Greek that Bi thelace of Science and Free Speech" by Richard Stiffwel, with 32 din in color from partitions by H. M. H. 1901, it I March, 1941

1 See "Archeology, the Mirror of the Ages," by C. Leonard Woolley, National Geometric Marazura.

August, 1923.

60.63). I discablis instance for two reasons For one, as the discoverer and first excavator of Tepe Gowen I am peressarily better acquainted with it than with any other ancient n bund; for another, there probably is not a any case a single ithistration that could be ared to greater side datage as no linder of otatekind's gradual emergence from the obscurity of prehistoric times

As recently as 75 years ago very little was known about the probistory of Messpolathia. Inscriptions and in municipies had told us a great deal about the Assyrans of the first milennium o, c., the Balcelovians of the second nuller nium, and the sometimes of the rand milleanium. When we had worked back however, by about 4,500 years ago, re-tal k-

information all but consid-

het it was perfectly clear that even that remate stage was far from the begin ange of settled occupation. The only trustworthy guide to the farther and deeper past wo sell be a site consisting of many successive prehistoric evels, to disclose in orderly sequence the gradtail progress of man since the beginning of agriculture - Such a site in ght do for science. of altely pione than could thousands of doorstuer (s. and ranniuls of chieces from periods already known

In 1926 I had the good I ctune to obtain a Guggenheim Fellowship for study in Mesapost mia, coupled with the post of Amunal Protessor of the An encan School of Oriental Resear han Baghdad. A small grant from the Dan psie Collège of il biladelphia le time free to examine h therto unexplored right as without the usual pressure to bring back something asceptalar. With that combined support 1 decoral six must have an archeological survey of northern limit, conscribining chiefly on pre-

Mistorn adea

### First Sight of the Great Mound

In April, 1927, when I was covering the area in the north of Mustis, my eye was at tracted from a distance by a tail mound which rive same 75 feet above the surrounding plant.

My first thought was that the mound would prove to be an example of Assyrian occupation. if not of Liter date. But a preliminary examination of the surface remains—broken sherts and fragments of stone implements - promptly disclosed that this was no routine site. Only its upper third bone signs of lassoric occurahon, while the remaining two-thirds of peares. to date from prehistoric times.

In other words, unless surface appearances were wholly misleading, we had here a long and hitherto missing record of virtually un-! a times, a record piled up at least 50 feet

high. The near-by villagers called the place Trepe Gawen, or 'The Great Mound," because of 45 height. But if next a staging should bear out the strike estimate, the world of science would have a much more valid reason for applying that name to the mound.

Systematic escavations were negatiful 1927. and carried on through eight separate campaises, four of which I had the opportunity to direct in person. The final results exceeded our greatest expectamons. Tepe Gawra provedto contain 25 individed occupation byels, yet only the upper six of these fell within the historic age (page 50).

### Light on Prehistory

The long paried prior to the introduction of writing, reaching back to the fourth millenaction B. ic. and beyond, was no longer obscure; or it was now illuminates, by a full scare of successive settlements, one on top of the other. The continuous account of early man could be aushed hack by perhaps 20 conturies.

The unfoating picture yielded a pattern of stency advance of politery and in architecture, in religion (page 60) and salety, in work and in play. Other sites of compatable age have since bern uncovered, each acting something that the others lacked, each helping b jilo e some new detail ja shurper relief.

Why did the ancient Near Easterners in general, and Mesopolumians in particular curtime to build on man-made bills when quac--excepting in Egypt only was certainly not at a premound. The reasons are sample. The first settlers wealed thinge a site which had a good water supply, and whose location was convenient for agricultural and commercial peerly. The in tial advantages of environment remained office live after the first town line been desen yed-by fire, floods, or war,

To level a place built of ann baked bricks was not a great problem; the upper sections of walls still stilling might have in be torn down and some rist might need to be a lifed to fall the openings that the faden debris had not covered up. In this process a few feet of the old occupation were sealed up and the next settlement was that much higher above ground property.

But the main reason for enduraing on the old site was not place the case with who highis could be done. More important was the desire. to follow, wherever possible, the outlines of the old buildings, particularly temples, in order to earn the protection of the gods and spirits that the previous fown had propounted (page 47).

Here is imdition at work from the ground. s to speak. As occupation followed upon. occupation, the site grew not only in beight



Surgion 1 's Calaise I Wanged Indly Studies Asserted Dast of Contarios

out also in prestige and defensibility. With this growth there came also a propert, made also in the influence of tradition become each successive occupant

Small wonder, therefore, that a storied stolike Tope Gawra was not find by handened to the obligion of time and the evictibal to estrations of an heriogy—and lits summer adbicome too small and inaccessible for all pro-

### Nearby 5,000 Years of Pioneer Work

The line or of all the of Maria of the same of the same and a half milenance of historic produce. The same shifts contained the same the same of the same and telegrant of the same of whom will be described there are the same of whom will be described there. A Tower of balled transposes from parable to for

It is indeed this a ried hackground as much

a unwhime else that beloed to make the testilled dividization a cosmopolitan and lasting factor, in contrast to provincial ach evenents of brief curation. But I crouse progress call to traced only against the lastine must be provided and the principal outline must be provided and the principal outline in the landing.

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many centuries in which copper was used sparingly with stone, but real metallurgy had not as yet been introduced.

In other words, the first phase in the career of Mesopotanna takes in the last Neolithic at the order that olithic,

or Copper-Stone, period.

that this was pat, however, a primitive place is clear tom numerous facts. We have been several distinctive paid fedividual cultures, each of which has perfected as own special type of painted pottery and maintains I well relations with the neighboring cultures, the combined territory involving a considerable tortion of western Asia

The advance is recorded plainly, in material remains if not in actual warrs, in the successive occupations which the mounds of Mess potamia, have preserved, layer upon

layer, for our own age to decode.

The number of such prehistoric levels varies from site to site. In each instance there may be a time lag of varyleg duration between two given strata. Nevertheless, we have seen that sime sizes may contain as many as a store of successive prehistoric settlements. The total length of this phase cannot have been less than 2,000 years.

### The Third Millennium

The historic are is ushered in by the two revolutionary factors of metallingy and writing. The first of these, which had begun we look in probletoric times, brought a profound change in the old caucal of space; if sturn lated geographic exploration by forcing man a book for new and ever more destablements of the precious metal (page 64). The other, and the fine specifically Mesopetamian development, revolutionized the existing the of time by forging indestructable links between the past and the present and between the present and the future (page 60). History case now embrace forgang hands and ages.

The print pal actors now come to be known by name as well as by deed. In Lower Meso-petamia, the region at the head of the Person Colf—which at that time reached much farther up the valley than it does now—the dominant ethnic group used the Sumerian language and called its land Sumer (Biblical Shinar;

Genesis 10:101.

Although this language has disclosed the secrets of its attructure to the planent efforts of nucleus scholarship, no relative of it, either ancient of modern, has yet been discovered. Its users were evidently a people apart, in an ethnic to less than in a linguistic sense; we shall see presently that they were also highly distinctive in culture.

The most platesible was to explain this situation and account for the absence of kindred elements is by assuming that the Sumerians had come a considerable distance, having left their immediate relatives gonewhere in farther Asia. Be that as at man, the particular gifts and all three of the Sumerians Uended so well with the other cultures of Mesopotama that the resulting product was to have a decisive bearing on the evaluation of clubication in general.

The eastern neighbor of Sumer was the Itanian land of Flam. To the north dwelt no nerous mountain peoples who appear to have been akin to the Islamites (Consession22). Adjoining States in a westerly semi-circle were the Semites; their contacts with the Sumerians were to become ever more close and int mate.

The earliest representatives of the Semitic family of people's are known in Mesopotamla ridio tively as the Akkadians (Genesis 10:10). Later on they come to be distinguished in the south as the Babyl mians, in the northwest as the Assyrtans, and in the west as the Amerites.

The greater part of the third milennians was under the political and cultural domination of the Sumerians. It constanted the brilliant Early Dynastic period. This phase is featured by written and material Hustentions from Ur (of the Chabtees).\* Lagash, Uruk (Billiant Erecht Genesis 10:10, Shafaje (the ancient name of this site is in doubt), and Eshampan, among others (pages 68, 70 and 72).

I offrwing this long phase of Sumeran ascentiancy came the first period of established Sentitic supremacy, under the vigorous dynasty founded by Sargers of Akkad. Sumerian and Sentite suight contend interminantly with each other for political leadership in the land, but the prevailing culture was very much of a joint effort.

Toward the end of the undersion there was a brief re-ungence of Supervisin dominance, under Guden of Lugash (page 75) and the founders of the Third Dynasty of Ur.

This last assertion of Superlan political power is known as the Neo-Sumerian period. The people responsible for it soon disappeared as a distinctive ethnic glenomi.

### The Second Millennium

The culture of which the Sumerians had been the prime catalysts spread, however, to more and more distant reaches. Their lan-

\* Ser "New Light on Ancient Let" by M. F. L. Malou in Nations, Georgest he Micheles, January, 1991.



### According to Pretty see of Western the Cradle of Civilization

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transmitten and ord tradition, the officiation of the officers of the continuous later.

The officers of the officers of the continuous and the officers of

inerable (page 85).\*

In the north, the city of Ashur gradually.

rise to prominence (page 90). The structure which that city for nied Assyria was to go win the course of the succeeding centures not unlike the Stoman state of a much later age, late a great world empire.

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E. A. P. obert

### Ceremonial Weestlers, Jars on Heads, Struggle in Bronze

sorb of relations a curve in ancient Mesopotamia wate depleted wit broudbent, within from the tirst half of the third in Hermiani, n c. Hallies between in over and demin is were often portrated. The reastly in bout the decil the great tis gamesh and his one true opposiont. Enkids, who later became the here's languable cor parion. This bronze cast can a felin un barb and the content of the state of the state of the content of the state with paramed an interest soft at the contract of the contract

remained just as resentful for psychological Before the second midennium was . It see, however, both Babylon and Ashur As the be subjected for long stretches of time to 6 reign in le.

In each instance the conspictors were outsiders; they had no family connections either with the Sumerium or the Semites. Ther cases were similar, however, in two respect Both conditoring groups were attracted by the divisization that has evolved and majured in the fertile valuey; and both descended from the two long than of abountains which form the northerly boundaries of Mesopetamia,

Babylon was conquered by the krissite (page 87), a people whose home lay in the Iranian highlan is. Their victory bad been all last assured or recarller crashing raid the hands of the Hatres (fremesis 15 a people of Importure-

pean stock settled hi Asia Mapor

fine paragraing effect of these twin blows raid not wear off fully until some 400 years later, inthe 12th century n. c., when Baliylovia was at List restored to bative tule. Ashur, on the other hand, for pd itself proper the industrie -: the Harrians the Horites of the Old Tes-Liment (Geresis 14 6) -a people from the region of Armenia (page S . .

By the middle of the second mullennium th exceptionally active group had made depresence feet all the way from the horders of La t to the foot-· · · i fran, leaving substantial traces of us influence in the form of curtoral elements. In Palesting Syria, Asia Minur, Assyria, and the detrues to the north of liades books. Much of

what the, contributed was necely a new version of old traditions, which the Hugrians had arquired from the Samerians or ' Askadians in the third unllenning. The Mesopotamian chilication was now active on a broad front, in the manner of a clude reast in propagated by collateral as well as by Engal descendants.

### Two Correlating Phase

But the political power of the Flure ins was not equal to their culture. Associa, at all events ma need to en membre itself as early as the 14th century. Thereafter, this vigorous

the based on the middle Taga experienced a lot a period steady growth and a panelon, which was not charked for nearly 500 considerations.

the control of and then the other aratch the Mesopotamian family attaining a limit of power treed hitherto equaled, only to be followed in rapid order by a decisive at a corposent is less

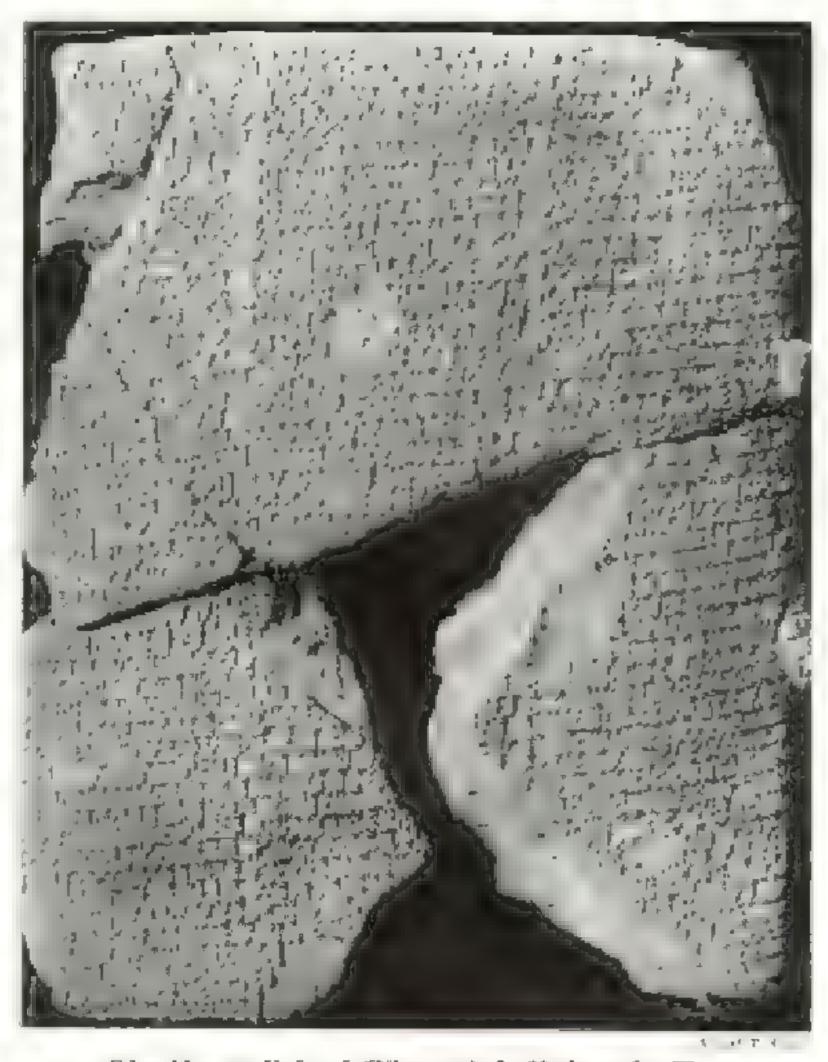
traffic the said ni najengaya i si, sm the madde of the 7th un established them. after a Fayjit, the cultural awal of Mesce. MULITAL STOR TERROR prebistori lina - li No. In Market | 1 1 2 2 11 it si overexpans un 42 4, 1 1 1 , englar the charles of A TEXT SHELLT BY III the combined assault if the Medes and the Edel : 1 - in 612 Brozyki ar Er

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time read the rice awakening stemmed from Iran. This time, however, the virture neither blassites nor Medes. The concerning in 430 p. c. of a contact tyres a contact the decidence of the contact tyres and contact contact tyres are contact tyres are contact tyres and contact tyres are contact tyres are contact tyres and contact tyres are contact tyres are contact tyres and contact tyres are contact tyres.



The Heron Epic of Gilgamesh Is Written in Clay

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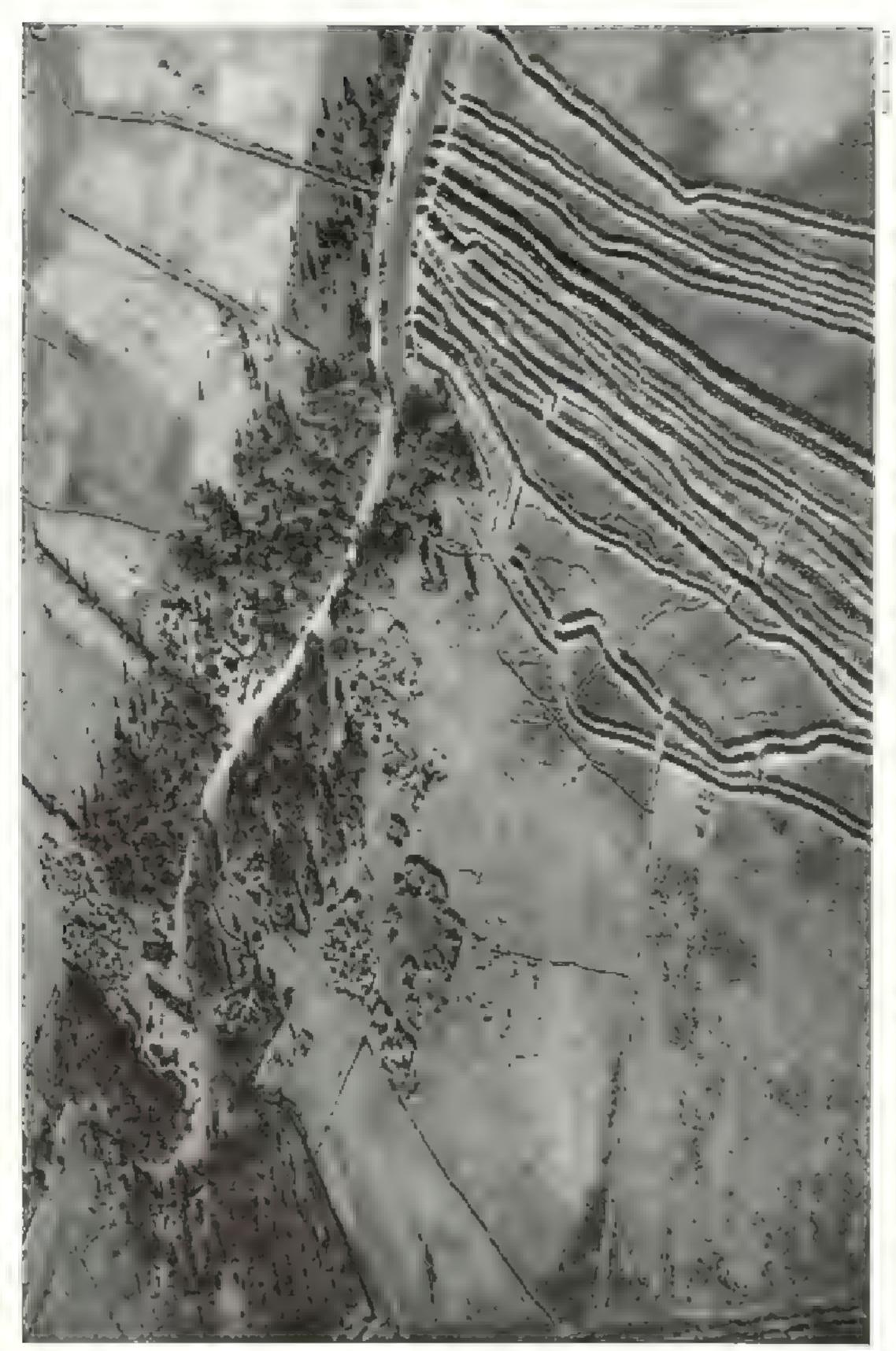
Iron. It enough, the storneth of the Pertins, like that of the Me les and the Kass abet to them, flower, in large measure from the pervasive cultural influence that Manager potam a had been everting on its new of ever more the third mills were

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The death of Alexander the Great in Rabylon wrote an end, at long last, not only to that city's hapes and ambitions but also to the individual existence of the country and to its age-old independent culture. Mesopotania, as such, ceased to be.

Its inner vitality, however, was far from spent, Suadry elements of the challention that had grown up in Mesopotamia continued to five on and theref with other notable achievements of mankage, under Hellenism and its successors. And thus they survive to our own day, in cummon with other Mesopotamian contributions that had found their way in the meantime to Palestine and Asia Vimor, and thence had entered the main stream of western civilization.

### A Way of Life Fodores

What then are the enduring cultural values that make of Mesopotamian civil sation a light that did not full with the collapse of the political structure? A full list would take us too for afel. As a is an exhaustive tally needed. For nearly all of the region's achievements that time has been module to obliterate are grouped into a harmonous pattern which adds

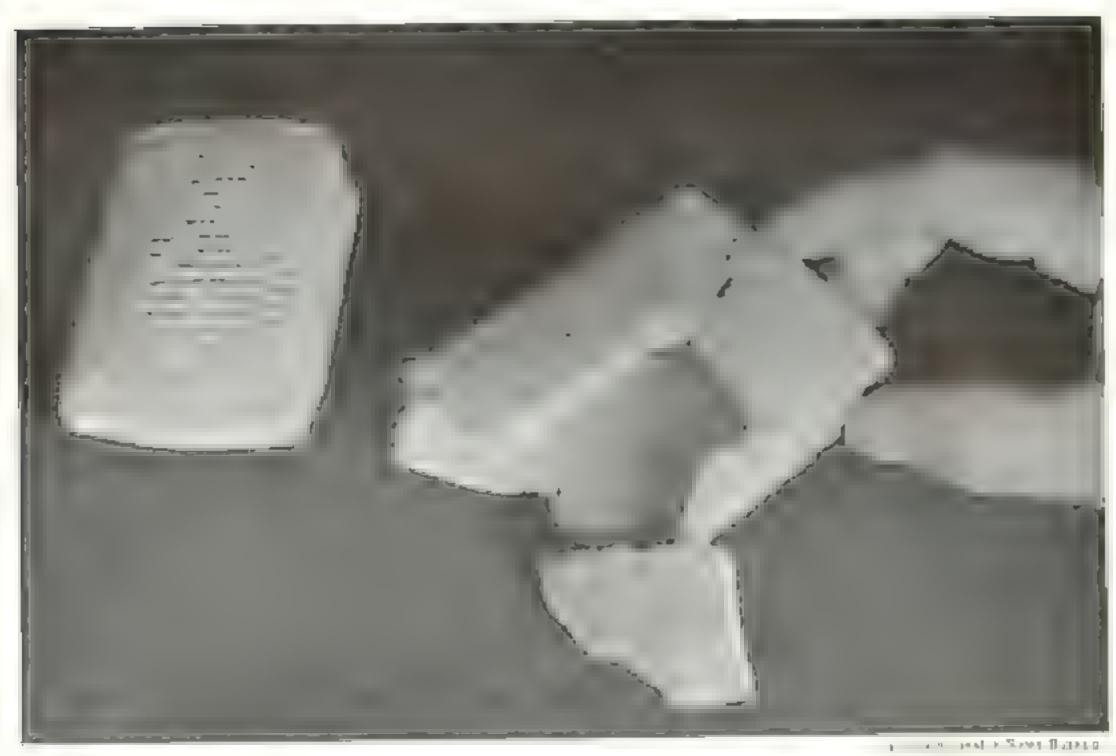
up to the Mesopotaming way of life. Once that pattern has been outlined, the unin details will full readily into place.

If civilization is largely a way of fixing the above in Nature and society, how did the abovent blesopotamizes make these all important adjustments? Very briefly, Nature was to the thoughtful inhabitant of the Tigris-Euphrates Valley a combination of expedicious and violent forces, each personified by one or more gods.

The gods' actions were unprecidentle; hence l'ie on earth was ever restless and uncertain. Man must be everlastingly at pains to please and appease the gods, so as to influence his own fate for the better

This requirement applied to the mightiest king no less than to his lowliest subject. The king was no supernatural being, as in Figypt, but it for rt il, abject in his submission to the powers of Nature. To this extent, at hast, all men were equal.

The place of society in Nature becomes ultimately a matter of the rights and responsahilities of the individual any individual. Here we have the essentials on which democracy is founded.



Lettered Clay Sheaths Ensured the Safety of Important Clay Documents

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That a radimentary form of denocwas to kertote of the Mesopotamian
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Me-equationia it was the nutural thing for a ruler to pay the current price for anything be wisned to acquire

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society; part cularis so an literature and the
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### The Key Position of Writing

the common dem saler in all the said dental advances was writing. The said in the said front, making life fader and the said on a the said in the said

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Summing culture, itself a composite product, gradually develope, into a comperative civilization embracing the whole of Mesopotanda. The basic second, intellectual, and norterial attainments of that broader civilization appear eventually as the common property of the larger section of western Asia known as the bestile Crescent.

They spread also to other adjoining areas, and in course of time chassed over to Europe Like bread cost upon the waters, they proved emply towarding, in that Mesoputamian civilization lived on after the mother country had fallen under foreign diameters. By then the foreign conquerors had become in many ways the disciples and the realons guardings of the Mesopotamian way of life,

It remains only to show how the separate cultural elements relate to one another as parts of a harmon cas and living pattern. If the entre system got its start to m the local concept of the inclividual in relation to society and of society in relation to Nature, it was writing but emerged first as that system's most notable by-product, and later as its very perventical

broperty which characterized the Sumerius is I them to identify their presented to the gods as offerings—by occurs of personal mancers engraved on their evidence seals. The seals were rolled out on soft they and the impressions could then be attached to the given object as labels spage to t.

Sum ar dentifying markers were used for lamples and cities. As such they were more throught pictures to be seen; they were at the same time names to be promuneed. From proper names the notal ions extended to objects of importance to contemporary economy, inally to woods in general.

At the same time, means were decised to express not only entire words but also component syllables, the development proceeding from the concrete to the abstract. It was a decisive step forward: for it marked a genuine a scratton from more word painting, a step, stallestably, made possible largely by the peopler characteristics of the Sumerian language. Thus we seen have a flow ble medium for recording speech and thought

to is tempting, but vair, to speculate on how much braget man right have taken to discover writing without the facutable bakagained of the Sumerian social system and of the Sumerian language. The fact is that the earliest Sumerian written records are also the oldest forms of actual writing from anywhere. Moreover, the complicated process,

from concrete symbol to abstract syllable. takes place, step by step, before our very eves, as it were.

The possibility that the entire procedure was repeated independently elsewhere is extremely remote. It is true that Egypt constitutes the other great outstants the other whose antiquity is comparable to that of Mesopotamia. We know, nonever, that Egyptian writing appears after the Sumericas had perfected their medium, and that it is full-grown virtually from the moment of its of pearance. The preliminary experiment deage is lacking

Since haypt and Mesopet smia are known to have maintained close cultural contacts with each other in the cent mes prior to the advant of writing, particularly so after the coming of copper, the means were there for the idea of writing to be readily communicated from one to the other. For all these remains many scholars are now agreed that haypt tack over the basic idea from Mesopotamia, but employed its own specific symbols to put that idea into effect.

Achievements of this magnitude are difficult and rate. Even though the basic problems had been overcome, it required more than 1,000 years before the pext great stricts was taken—this time from syllabic to alphabetic writing.

That secondary discovery, which was to prove of trestimable will to all mankind, was likewise the contribution of the Near East worked out somewhere along the eastern shores if the Mediterranean.\* This achievement would not have been possible however, without the underlying labors of the early Mes equations.

### Mesopotamian Words Su I in Use

Writing by means of separate signs for words or syllables is a complex procedure. It calls for a key if it is to be used with speed and precision. Since it is indicate the key takes the branch lists of things and beings systematically tatalogued.

Lien the earlier Samerian documents contain aises of birds, fishes, domestic animals plants, implements, and the like—all intended as aids to wrong and reading. Such groupings imply careful observation and organization. They are in fact the first steps in a scientific approach to anology, bottony, mineralogis, and so on.

\*See, in the National Grants and Municipe Decrease from System Hills. July, 1993, and "New Al thank of the Americans Is I regularly Decoher, 1993, by is by Chapter F. A. Schapter.

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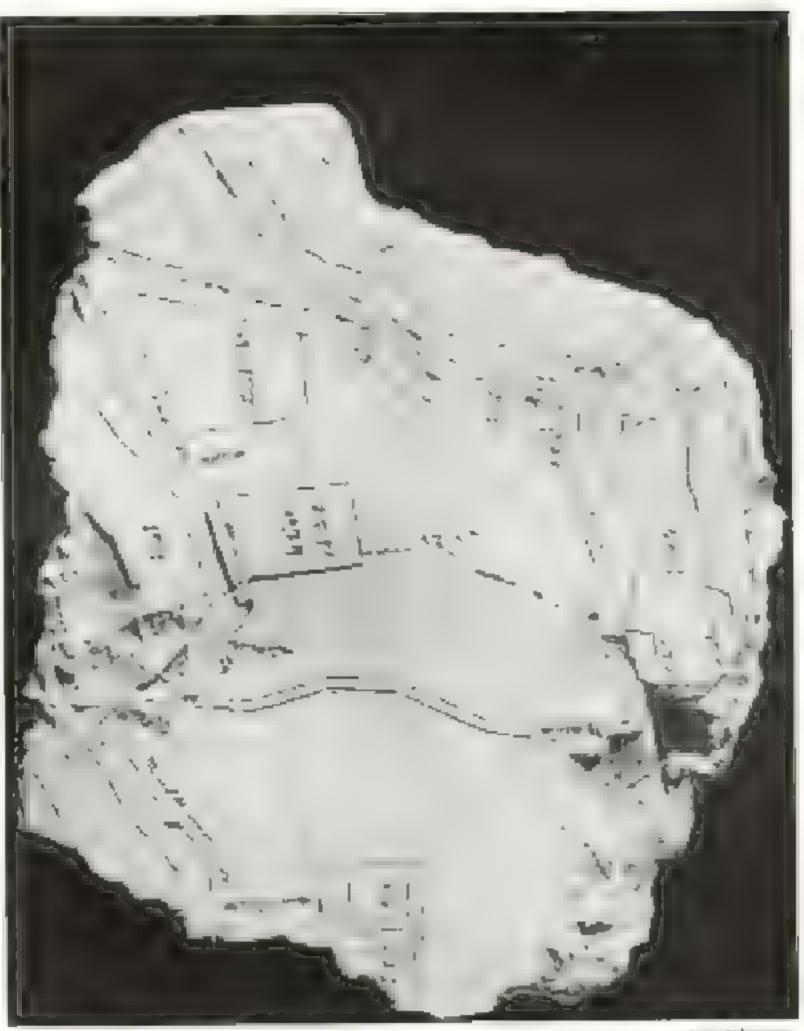
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The import I tale of G leamesh (pages 49 and 77) appears by the told the of the second saftera into the as many as four different has guages—Hatte and Hurrian, in addition to Mkadan and Sumerian.

It has been pointed out frequently that the Hdyssey has various points of contact with this great literary achievement of Mesopotamia. And even though Homer stood in no need of outside assistance the literary form which he couployed was originated in Sumer The legend of Cranus and Cronus is traceable through Hurrian channels, to a Barylonian source.

The influence of Mesopotamia on the Old Testament carnot be indicated within the limits of a brief article. It was inevitable, for the simple reason that the patriarcus come original a front the haphrates Valley and write thus automatically and assaiders of Mesopotamian civilization. Answerd in this fight, the supreme place of the law in the Binic assaines added significance.

When the B I le uses the incident of Egy; than happings as a recurring releasin, it would seem to allock to noch more than the relative y brief period of Egyptian oppression Rather it appears to attest the fact that the Egyptian way was abhorrent, incompatible with its own way and before that with that of

The ideals that have sustained mankind to this day are in many ways the same ideals that were tested and refined in the magnitures haboratory which Mesopotamia maintained during the thousands of years of its bestoric progress. In a final survey, therefore, it will not be the sundry survivals of that cavilization which tall for our close attention.

Not the wheel and the true and, the razors and cosmetic sets and frying plans; beither will be shepherd's places of the princely liarge, at the dads on our clocks, or the astrober of charts that constitute our greatest debit of the street

At the could vital are law and writing, and beyond these the abiding sense of the rights and obligations of the individual in a changing and dramatic world—pointing a way to hope in that a struggle for civilization. We are only beginning to appreciate the role of Mesopotamia in this epic struggle.\*

### How the Herget Paintings Were Composed

IN efforts to present, in ce laboration with the artist, the boson features of a great civilization of anti-palty, the archeologist desired with Meso sotumia is less fovored by anti-stapices than were his colleagues representing Feyot. Greece, and Rome.

We know that the artists and artisms of Mesopotania were no less accomplished than their contemporaties in the Nite Valley. Climate and soil, however, combined to preserve the products of the one center and a cestroe those of the other. In Mesop damic woodwork and tearlies simply daintegrated and wall paintings did not fare much better

bortanately the clinest souls from Meso potamia are a source of information that is practically mechanishle. Sculptures in the round, and more especially the vast number of reliefs in stone and begans (pages 45 and 48), contribute their share of vivid and vigorous representations.

Which the last two decades counce and the refiner ents of archeological methods have preserved for us several important examples I local fre-coes—at Til Barsin and Mari. Aborsa and and Mari. The Kungalau, and Oqair on the Arabian coast of the Persian Gulf—so that we are no longer per used to massaces, when it comes to the question of odor on anything other than pottery

In the following paintings by H. M. Hereet the facts about a complex civilization that basted several thousand years, including nearly three full empiates of historic progress, lawe been compressed into 24 subjects arranged in thromotogical sequence from remote pre-lustoric times down to the rainable of the first mallemium u. c.

hach pleture stance for a whole age, or for a significant phase of the given age. The episodes based on fact or on imagination, may be descriptive of a moment in history of a whole era

The archarlogist has invented an incident if the texts did not formish him with something better and stranger than fiction; but he has sought to be true in the spirit of the tane. Details test an a solid foundation

this med for highlighting a composite and denamic civilization by last fling life into each individual pair time, imposed an added strain on the artist. Mr. Herget's experience and interest proved to be a unique combination life faced the problem, delighting in its challenge. It is a senter of deep tegret that be did not give to see his last major project published

<sup>\*</sup>For a filliboral analysis on Manapotama, see \*Nu-



Fourth Millenvians a. c. 'He Created the Grass, the Growth of the Marshes, the Reeds, and the Forest , . . A Swamp He Made into Dry Land'-Frida Creation Story

### Man Helps Bullet Southern Mesopetamia

o sunt it of the field was yet the field and yet strong ap" (Gene-Sty 2,5 L

This sentence might well apply to southern Mesopotamia -- the traditional region of the Garden of Felon -at a time when the surrounding er's bal already been long established. The land mere had to be built up slowly, by the silt brought down from the mountains of Armenia by theless rivers. And man had to the lis share in making the ground firm

Northern Mesopotamia is hilly and old, the south is that and resatively recent. Lower Mesupota a a owes its very grainfil to the once ising fall all of the Tigras and the Esphere Their salt is constantly adding to the land suctains and cutting down the water are a at the head of the Persons.

Gull

What had been scaparts even in comparatively late prehistoric times are now in their legals it amount sites ying hundreds of tedes irland.

The first sculers arrived in Lower Mesonotamia from neighboring and

Long-estal lished lands

They were real pioneers, working with the reeds hat grew from the marsh lettom are marring the r into a cover ever the stense. The land which they beloed to form with their own hands was new, but their a villeaflop was old and matter. What they as hierard in the comese of the first few centuries was a blend of the old our the new, a Hend of disorgeries and experience imported from neighboring renters but adjusted to the new sarconschers and materials,

It was on this to ilv filmsy foundation that a new rivilization was to emerge in course of time, one which was to develop into a dynamic force emissing barriers of language, tack. and political boundaries, and bet ening in many important respects the craile of madern civilization

While Lower Mesopouguia was utactably drying out, there developed in the highlands to the north and portheast three distinctive cultures each of which was typified by a particular kind of painted pottery. The latest of these three painted postery cultures is often called El Obeld (page 63), after a small site near Ur-

All three phases were will asquanted with animal bust-andry and enjoyed well-developed forms of agrirudture, architecture, and religion Their postery served primarily a variety of domestic uses, but the hist pieces were reserved for ceremonia-

and religious purposes.

The pottery soon develops local characteristics and acquires the leatures which are sampled on this plate. The same is true of the auditecture Mongside the temples which are smooth to to from he porth there develops also a special local style which features the reed as the basic la bling material.

A bandle of meas tail pear the topyields the graceful curves which come to be associated with the mother goddess, since att, provilecture, and religum are already in intimate associa-

, he plate seeks to compress sever, I centuries of development at an single scene. The men in the painting are stamping down the ground and laying muts over the slowly drying marsh a patch previously wrested from the marshes already brain the cult halwirese goddess will be implored to protect man and beast as she receives offerings from the treasured pottery vessels assembled for the purpose.



So Were the Gods Within It"-Pric of Ciliameds Per e Miteming

## Let and Was Burnel Under 12 September This Northern

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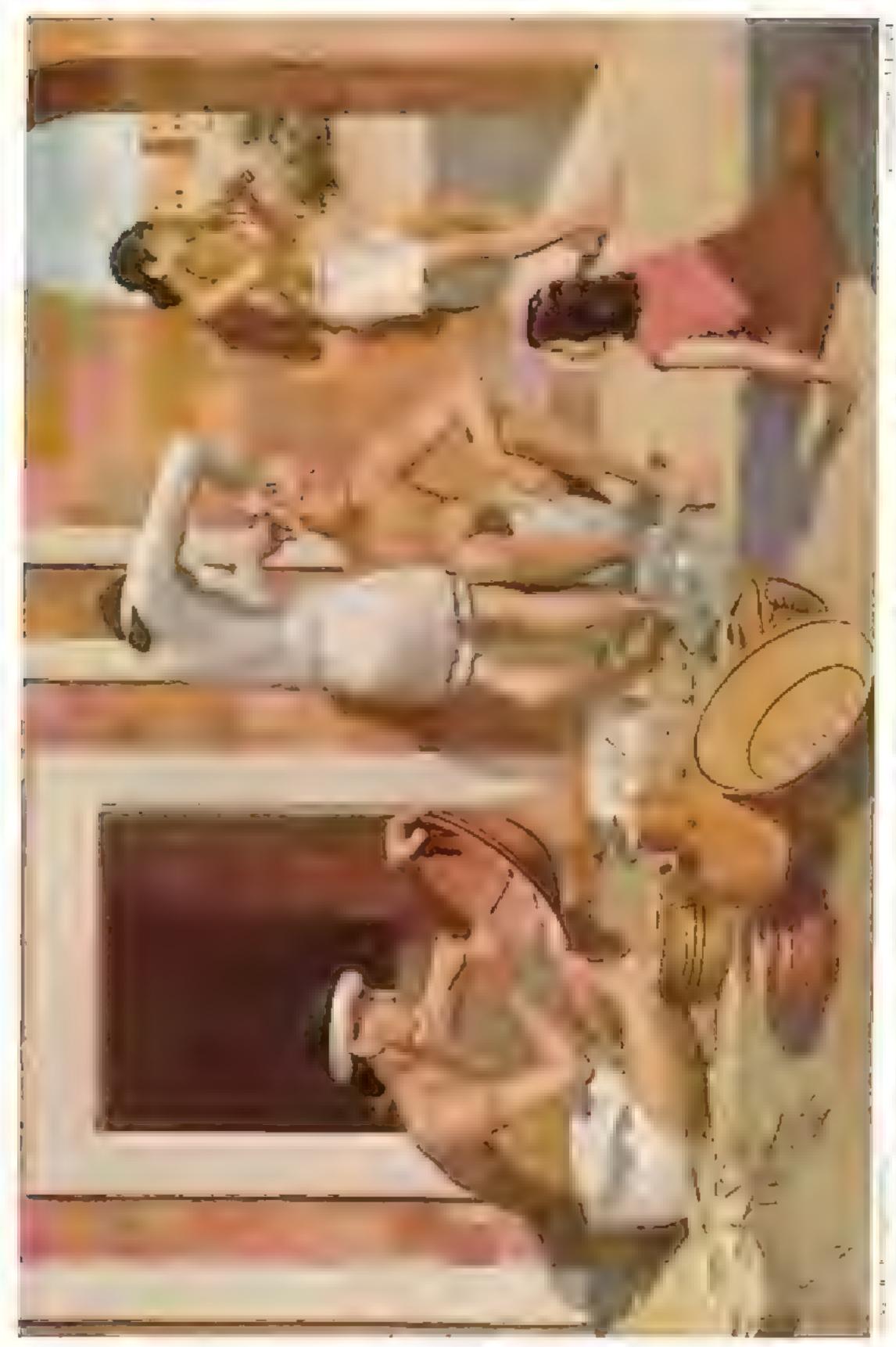
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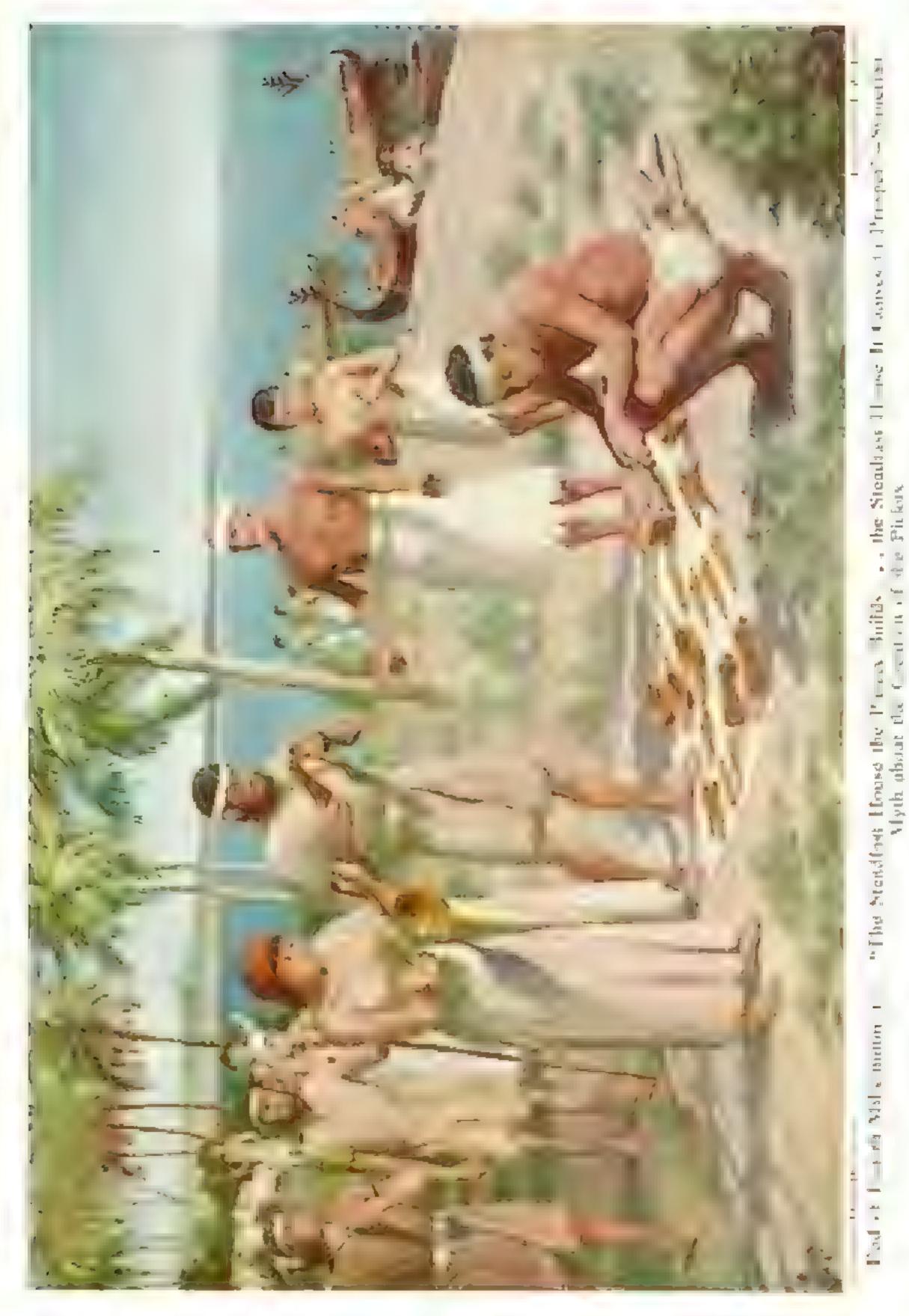
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# The Temple Courtyard Was the Scene of Varied Pursuits

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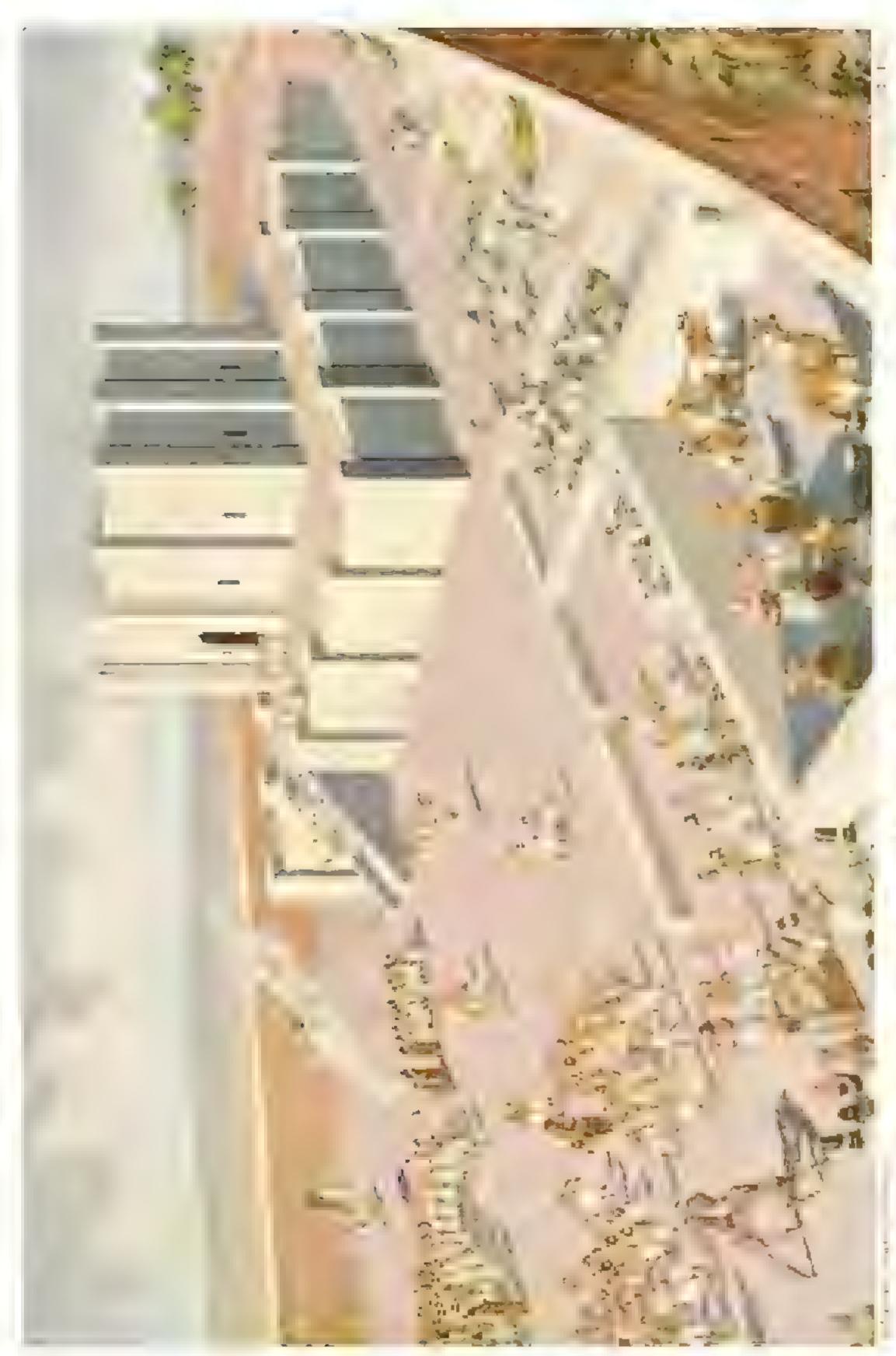
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Wresting and hexing were recognized forms of while had the sound of an interest to the control of the sound of the great epics of biretted unit (page 76).



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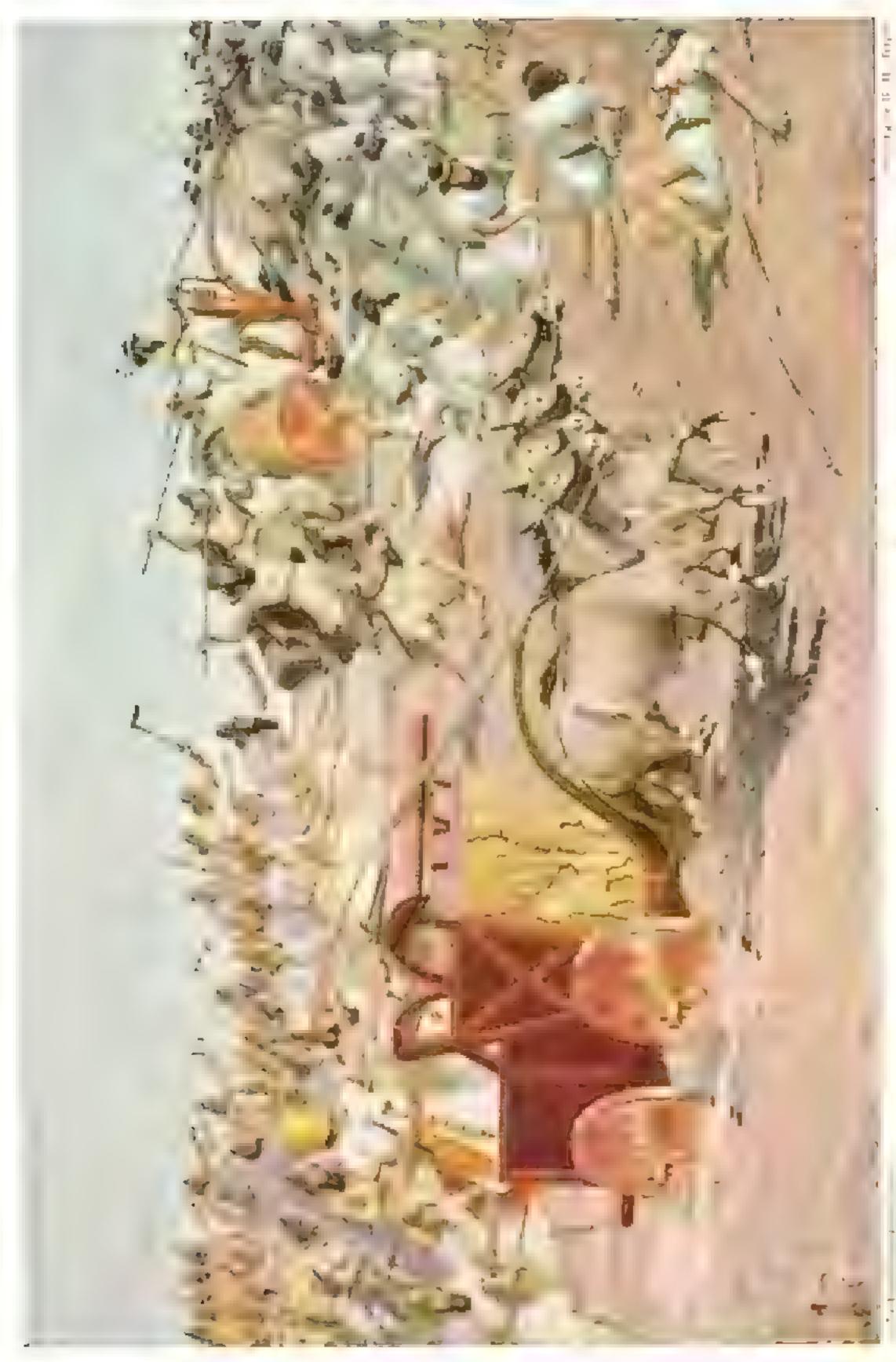
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-Farras un. Sele of the Will M. Tried Milleponney per "I. Lassisten,

### The Royal Tombs of Ur Hide a Grim Secret

Evice sixue the discovery of the great ocath puts at Ur by C. Leonar, Windley, who evacuated the size on behalf of the firitish Museum and the University Museum of the University of Pennsylvania, the meaning I these mass Lupuls has possed an acute problem. The best preserved of the trades are specially light chambers with human victims in each, sometimes 70 or more.

The wealth of the functory furnishings and the title "King" which is instituted in the of the principals entended in this unusual fashion have caused the everywher to regard these partial lar interments as

Royal Tombs.

Hert is why the names of King Meska and ag and Queen Shob of have been me familiar terms to all those who have find the opportunity to view the namy beautiful of jets that have been recovered with these bacids—in museums of Baguda'd Philadelphia, and London, win the marvelous publication of the finds. The mass deaths of the attendants have been expanded as more or less voluntary acts on the part of the faithful followers of the coad-coad-

This theory is attractive but not entirely free from don't. A sing by the times of Meskakimotic is not known in the official lists. Neather is there anything in Sumerian literature or religion to account for such a frightful aftermath of the bound death of a ruler. Others have tried, therefore, to explain the practice as a largurous survival from more primitive times when the all-important rates a next at ensuring fertility may have required have see a largurous survival of the man sporifice.

Still oth is would look for an explanation to the Alesepotamesn custom if setting up a obstitute kings at the time of the great frames alebrated that ually in connection with the New Year, of all times of some overwhelming put outside kings might eventually be put to death. In the Larly Dynasta eriod the practice may well have enturied the death of many attendants.

Not to decide augong the meanibalt to direct attention, however, to the existence of such a practice and au sone of its details, we have introduced a picture of a procession on the

way to a deata pat.

Some of the victors may already have "g me to their fite"; or the roath were may yet have to take place, at that only the call furnishingare being transported slowly in the melancholy processed. The honces of the warriors point down as a symbol of ill fortune

These attendants may be among the designated victors, or they may merely reflect their genuine dejection at the calumity that has already over-

taken their press.

The same would apply to the young earl in the I regulated, who is pictured as wearing on attations recovered from the billion of shahad and post destinated in the University Museum in the kidelphia. She might be Shahad best to the dead box:

One thing is certain. The dramatic conception of the universe to which the Sumerans and their cultural successors subscribed rid not in later times exact a till on such a beroid scale. The Early Dynastic age bousts many notable achievements in more then one field of luman endeavor. The periods that follow may not match this one in sheet emberance of eart, but they reflect steary gains toward a more humanized view of life.



Middle Third Militage court, to Take Amaradi. To Great Cods, Lorensteer. Desire and I to Phay Date in the best of Hearb, he Days They Do Not Reven! The of Gilgingesh.

### Even the Gods Were Guided by Democracy

\* Thur Archer Mesopotamias made his gods naich in his own image. He partraved them as subject to all the ordinary human emetions wave and batred, good will and id, moderation and excess. Life among the gods was morely an idealized rethe that of like among men

The basic feature of Mesopotan am society was a profound regard for the rights of the followidual. The king WBS true que instural being, no rod like the Egyptian Pharach. Because he lacked autocratic pewers, he was dependant in putters of consequence upon the favor of his gods and the consent of his Council of Fiders

This emplusis on coasolta ion and countil approval is met with throughout Mesopotamian history. And it is this some essential democratic feature hat gave Mesopotamian civ lization As dynamic drive and carried its benefits to many lands and peoples.

Save the gods of Mesopotamia were little more than idealized nortals, we expect the ideal of rudimentary democracy to be evident among them. I lait stain was indeed the case is shown with care sim, dicity and charm by the main resigning work of Mesopotamia, the Greation Epic.

This epic converts itself largely with the battle which the benign gods wage against the powers of chees, who are led by the destructive gutdess Tiamat. Name of the apposing gods had the continue to face her

In nesperation, shrewd Ea designated young Mardak as the leaker most likely to succeed. Marcuk was resolute, but his price was striggering. If he was to champion the fight, he must be rewarded with the permanent chieftainty of the gods.

There was no alternative but to recept Marrial,'s terms. Vet no act

of such importance could be valid unless approved by the full Assembly of the Gonte,

honeseeing objections from the old guard, Ea first entertained the parhamont at a honepast. When at length he broached his plan, his guests were too far gone in their cups to denuit The motton was carried ananimonsle

Armed with his new authority, Murdak varquished Tiarnat and renumed supreme forever after.

The scene before us is the divine leanurer of the epic. All the attendtools have been transferred from reliefs of the Early Dynastic period: the men curying the heavy jars of heverages, the pottery stands for the puta: The servants bearing mounts of panuakes on their Leads; the musiciars; and the hoy with the sheep.

The divine greats are distinguished chiefly by their horned miters, four berns for the leading deities and two bir the minor gods in the packground. The drinking is done through tubes, as frequently shown on cylinder seals,

I be older of the two standing gixls Ra. rapiditume his plan. He is identified by his favorite symbol of the vase with the Bowing waters, which we have taken the liberty of depicting as emboudered on his waist-14,514,614

The youthful god lehind him is Marches. He holds the ring-and-reasymbol, and his sun-trothed danger is on his beful. His role is decirated with starbke risertes, a feature of Marduk in Assyrian times.

The significant thing about this scene is, of course, not how consent was of trined, but the fact that consent was necessary even among the gods. Representative authority, nor auticiacy, was the foundation of Mesog utamian society,



They Pecare Line and is Then Spirits Rive '-the Creation Epig

# Lie Messy than it is in the in Appalling Picture of the Great I had

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## The Law Protects Zealous value Institution of Marriage

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tridicated the existing has into a systematic end was generally assemble the existing has fato a systematic end was generally assemble to Hammarghi (page 85), the greatest kang of the life biret by a fight your, what is now detected to the end of the the last two years, it awarest, two new endes of how bayes been discussively, as new endes of how bayes been discussived, each obege than the Code of Hammara.

One of sheet torond up at the University Shagury of the University of Pennsylvania. By text is Sumerian and it has set for the first text is Sumerian and it has the laws of the city of Estimethalia an Akkanian (orresolation).

to have been the and cooks used in Mempedamia. The inscriptions of Universities, the last of the early rulers of

Lugards, at the end of the Early Dynastic period, already apply the existence of established legal mams

It is therefore a reasonably safe assumption that by the turn of the third millennium—that is, in the secreties Neo-Samerine pariod which followed the density of Akkad—the land eployed the security of broad beau protection, it is in that period that the accompanying scene is laid,

the second do nots the sealing of a marriage contract to Jasonb, at the time of Gudea. The Latine, hashing received the supplicited briefs price, indicates his readiness to propouse his dat ghter ay affixing to particularly his dat the requires of the contract to the formular of the order of a price.

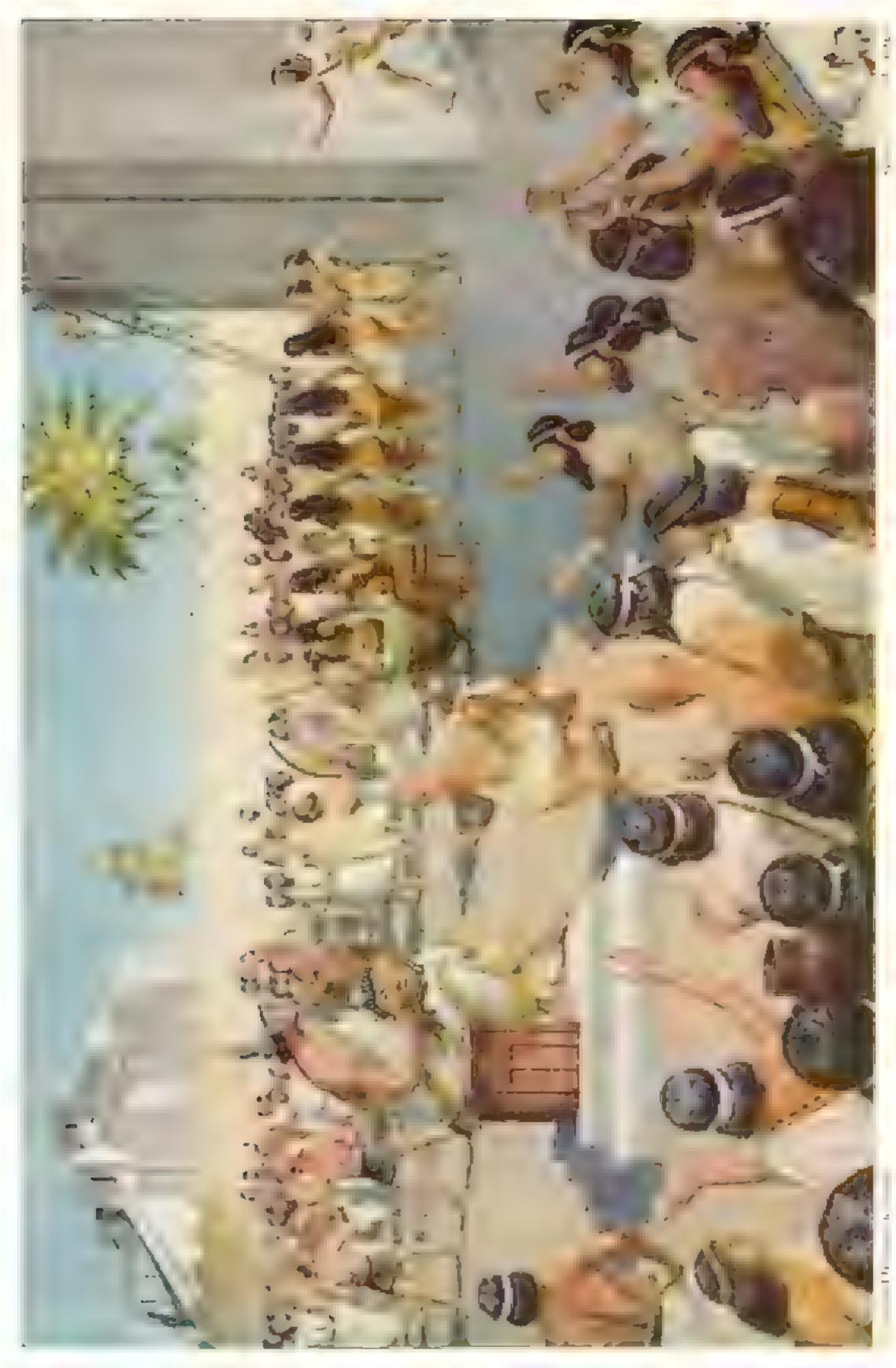
the detail would be impossible to follow, there and be no time are based on nomineets from the time of Gadan, who status occupies a place of him in in the right. The bride's mother as anothic after the famous sequess station of a second sec

for a sale of Mesopotamia we have chosen to name the bruke's father a previous to the king. The broke's father a previous to the king. The broke's father a previous to the king. The broke's father a previous to the king. The broke prior on the vest, cape so explicitly.

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## A Mich King for a Day Stays On to Rok for a Livetime

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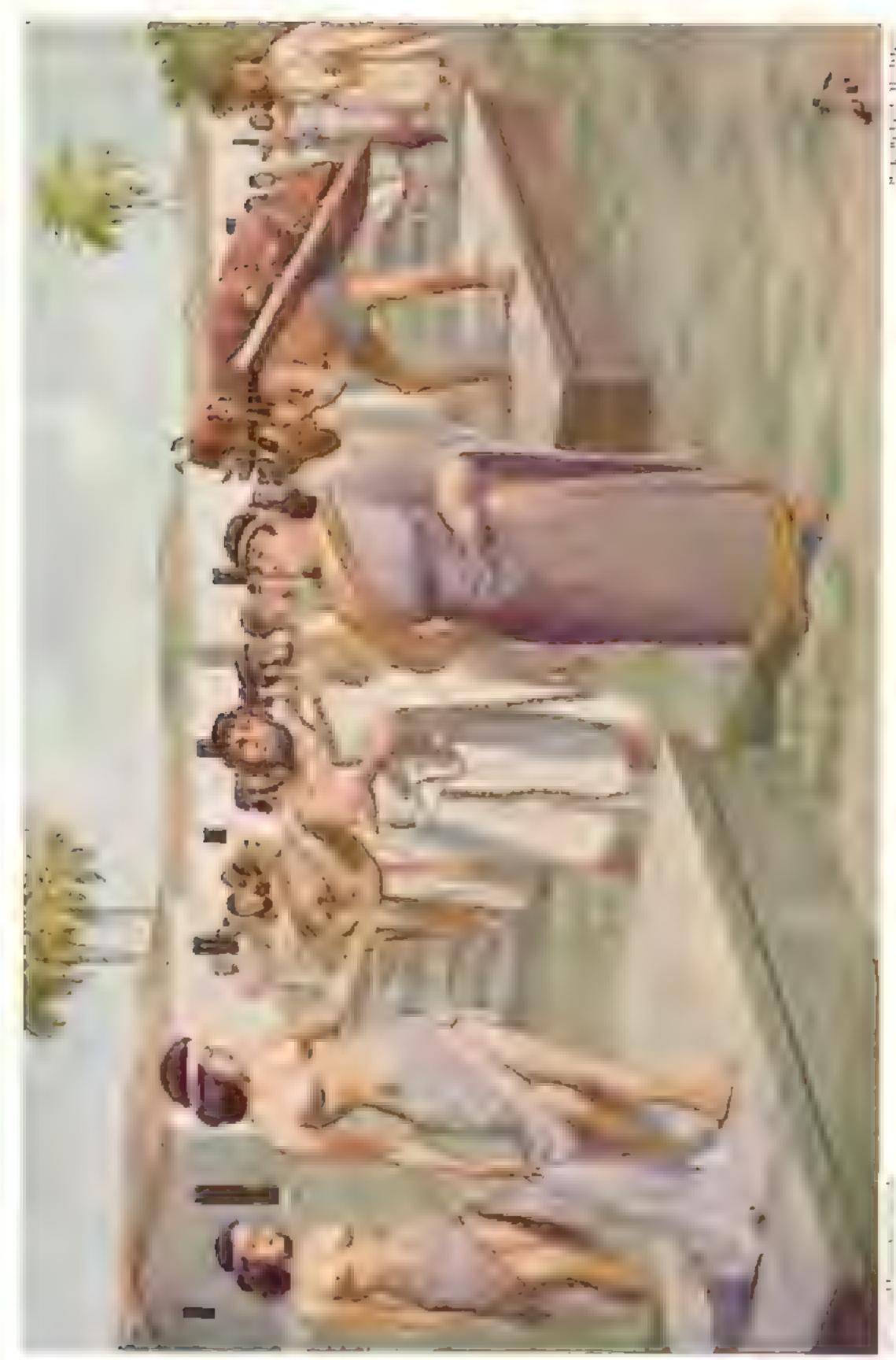
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The cost of slaves was subject to variables from place to

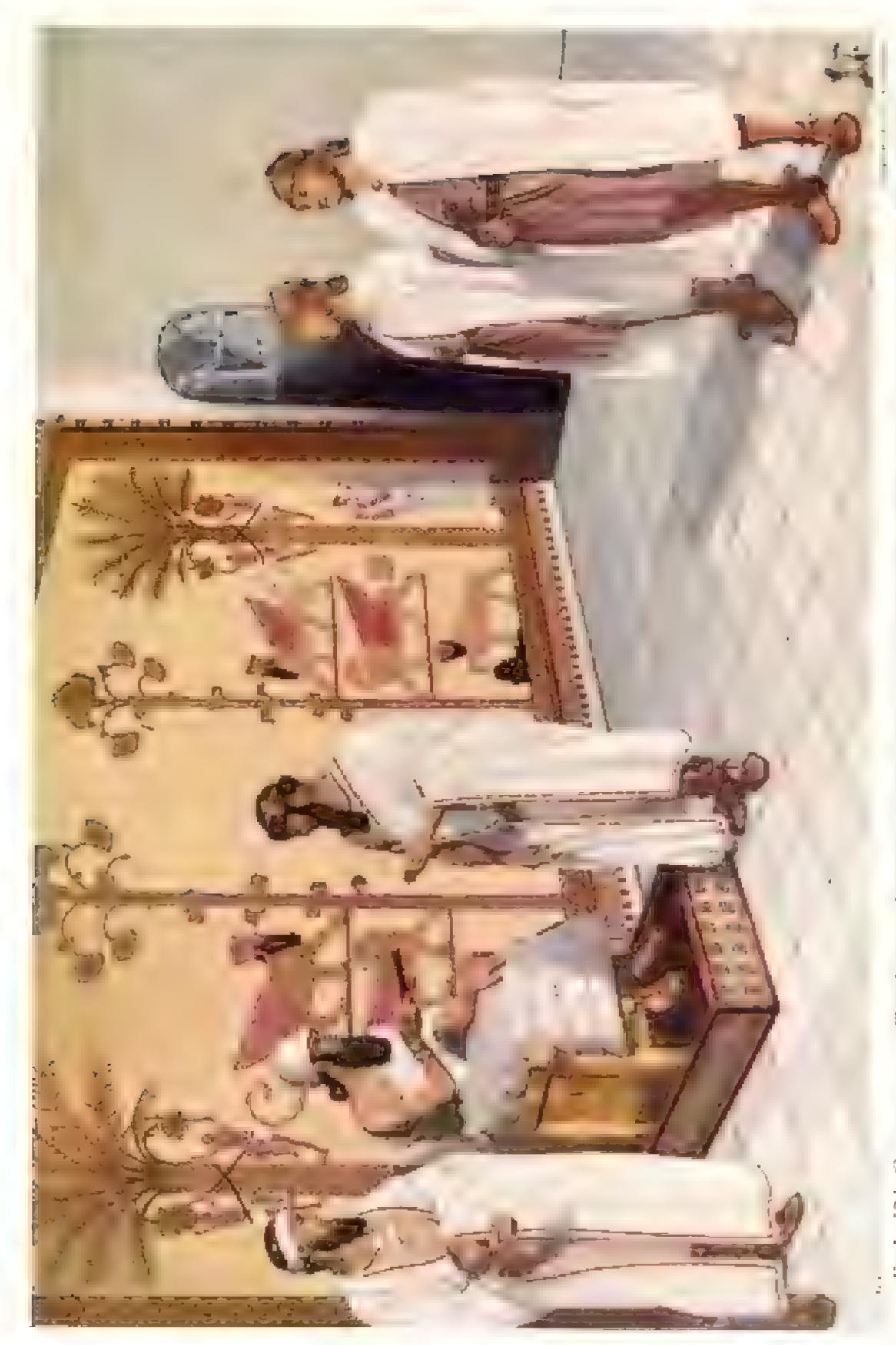
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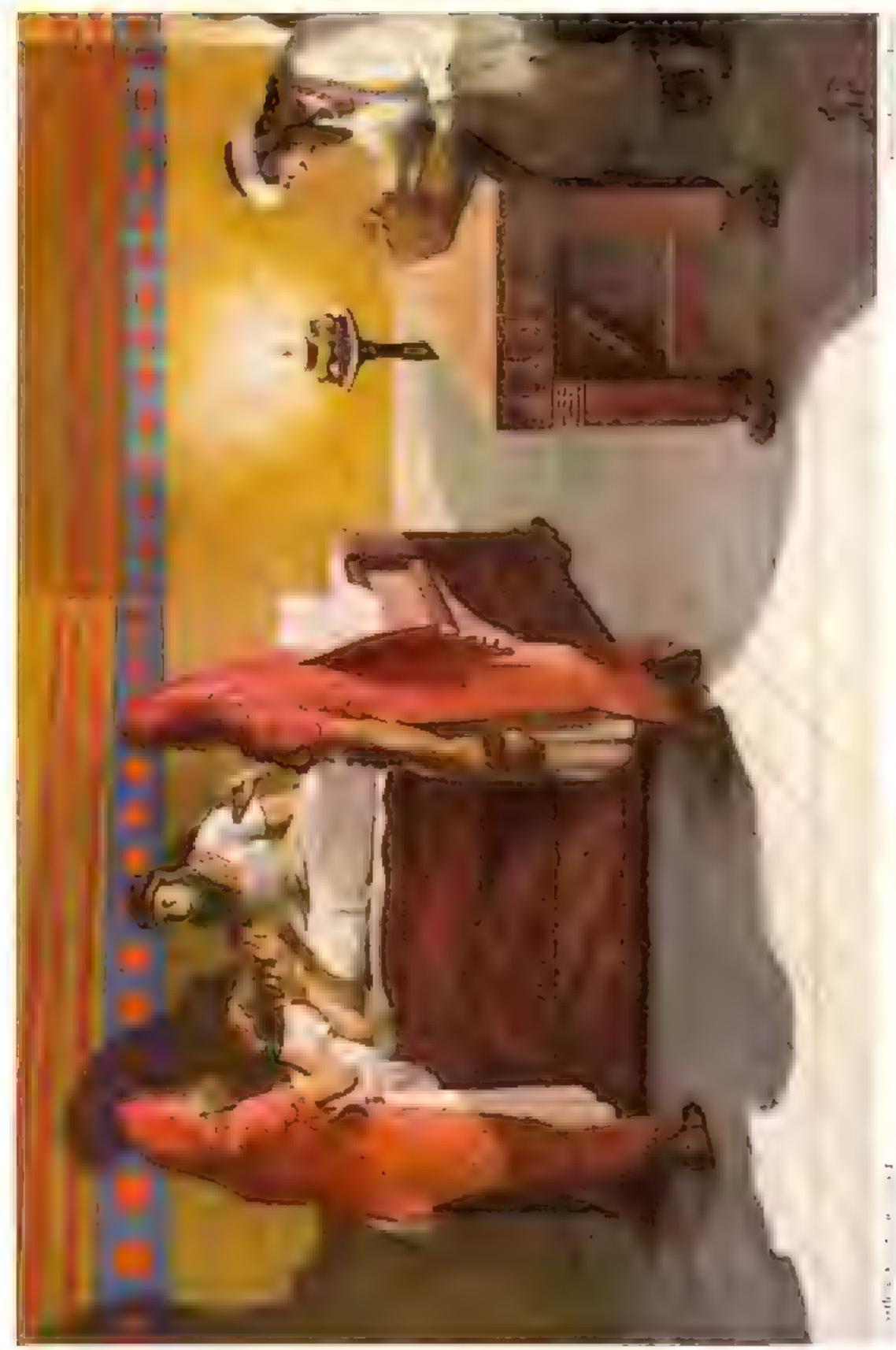
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### Medicine Teams Up with Religion and Marie

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### Justice Catches Up will, a Corrupt Magistrate

I Esonotanta from remite prefor many races and peoples. The story about the Tower of Babel could hardly have been inspired by any

other country.

I're vir as sormes and their descriptams have dealt with profissumer aus and Samerians, Semites and Elimites. bets sides and thittles. Another sign beant element. I fferent in Unguist stock and in much of its culture, is represented by the Harrians, the

Il wites of the Bible,

Members of this group played invportant rides throughout the ancient Near East in the second collection u c. Aurrian influence on the Hebrews le now known to have best Jy significant. In Mesopu-. the Hurrains were tankly settled in the region of the modern oil center of Kinouk,

These settlements buve yielded a distinctive type of painted pottery, a repartners of new designs on cylinder sours, a novel type of painted wall Jegorgt as and a rich collection of written ne chils which affered a sissil picture of Hamian society and if inlividual Fluctura personal Co.

The most productive Hurrigo site I have to dare is that of Nuci. 10 miles scartbreed of light k, excavated by a joint expectition of the fraq Maseum of Antiquities, the American School of Urlental Research in Baghdark, and the blanteard bemalic Mu-

SMILLIN

The present scene takes place in the Nuz courtboase, whose walls are advened with brillant frescoes it a type not past custy found in Mesopotanga. A painted his case butner in the corner and painted goblets on the grale provide additional examples of If trian forms and decoration.

Sea, of at the table are targe ludges their heads covered with austere hoods, each man equipped with the anchy ight all less limiter less all with a which he will certify his verdict. They listen artentively. A scribe is at pains to record the testionopy.

the accused is the mayor of the wito is to become neturnous in the local annals as the corrupt Kashshill take. He is flanked by two critstal les who wear oupper coals of mail recalling the scale armor of Gollath The excavations have visited one such armor in a good state of preser vation, and many scattered metalscales from other similar pieces of equipment

The mayor's accuser is one of his forther henclimen turned state's witmess. The charges include anciens in-Stances of multipleance in office: briserg, indimidativa, kidnapängs; and the nasa maristrate had even caused water to be mixed with milk.

Mest af the testimeny of this and of previous witnesses had I. It the actused impassive. He is aroused, however, by an allegation involving the comely gal Haberel, whestands by marely by. Against ber will, it is charged, the girl had been dragged to the private residence of the masor.

Karshshiharbe is vehencent in his direcal. But his words appear to have foliation theaf cars, for generalists liter the trial of Ritenshibarbe was stall mentioned as a significant limbing to jut in the history of the city.

That the coef magistrate of a city introsted to his charge some apton years ago should have been gudry of corruption and excesses is scarcely surprising. What is highly sign fromt, however, is that he was tried and made to pay for his mischenis. The tale to of the penalty is not recorded.

### Assoria Gains the Upper Hand over Dabylonia

Hits Stars and taked and Babylon were making history in Lower and in Central Mesopotemia, a city on the maddle Thris was r sing slowly to ever increasing prominence Its name was Ashur, as was also the name of its chief god. The state that kety came to control—one which developed eventually into a far-thing on pire— is known as Assyri

Ashar enjoyed subictent inaspendence and power to make its influence tells in distant Cappadoria, an easterly area of Asia M nor, Later in the ser and pullernium the city came under the domination of the Hurriars, but the relative balance of power which prevailed in western Asia in the 15th and 14th centuries it of give the resolute tratice rulers of Ashar their chance to gain complete freedom

From ther on it was a store of As me becoming the equals of other mobarries. From the end of the second milesmian down to almost the middle of the next they were leaders and finally musters of the Fertile Crestont

Ashur's closest neighbor of any preminence was Babelon. The relations between the two were much like those that many centuries later characterized breece and Rome. Browlon was the cultival center, but no much for its porthern neighbor in war and politics. Ashur, on the concer hand, was keenly resertful of its interiority in culture. The resulting creatry was acute and bitter

Our same seeks to capture that moment as history when the political tide had swape for the first time decisively or favor of Ashur. This accurred during the reign of the vigorous Assyrian king Tuku il-Noutte I

The words which is attered on humbling the captured Buttyn name king, Kashtdiash IV (apposite page), were to become symbolic of the future status of these two states,

Lastit Nameta I transferred his capital from Sahar to a hear-by site, to which be gave as name. It was extavated by a German expedition under Walter Amirio, and the results of that work are ample for a reconstruction of the big of the period.

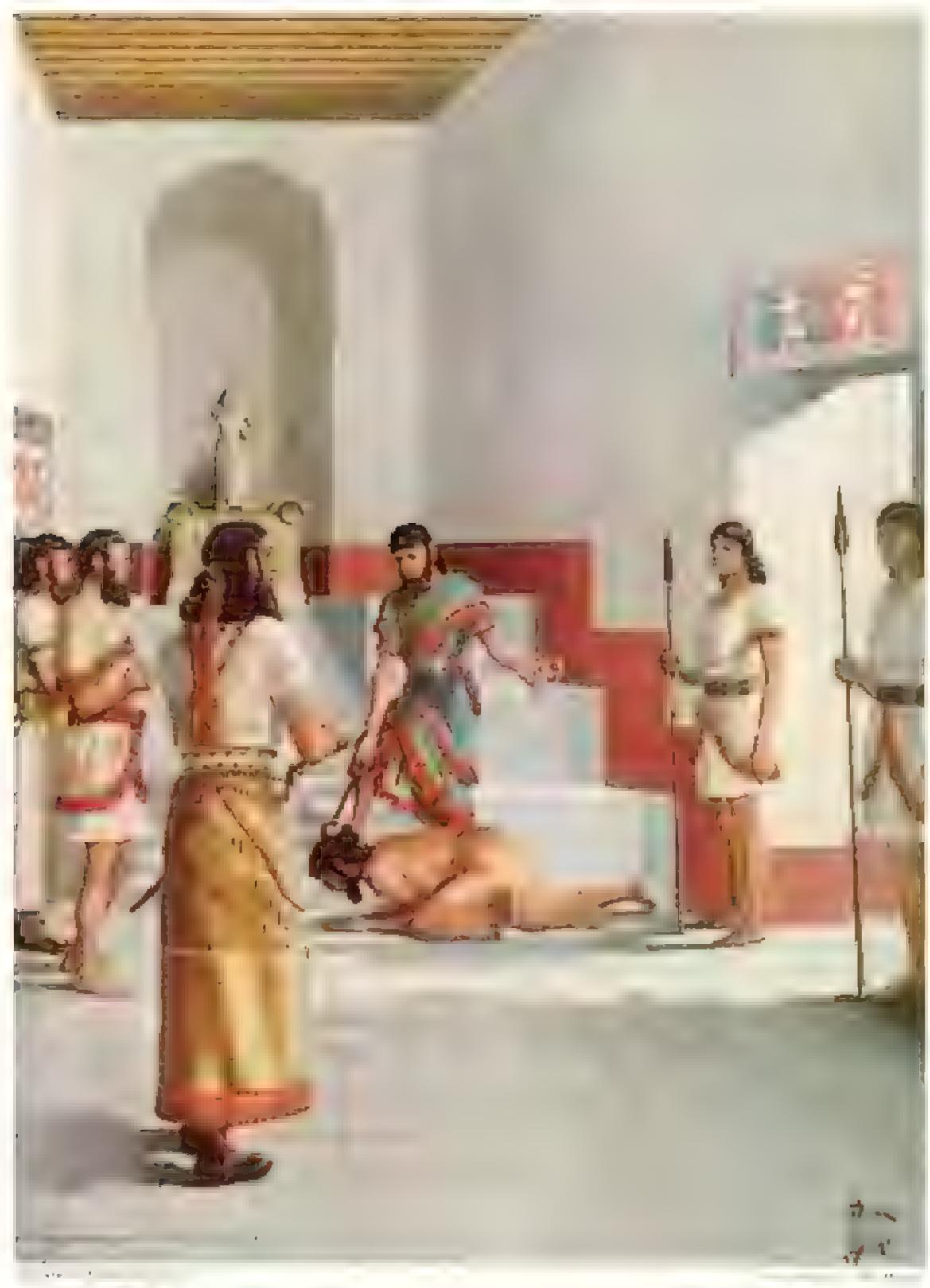
The great half bocuses upon a picke contraming a scalptural stand bearing the statue of the third detty, who hads in his lift hand the rod-and-ring, used as a symbol of a thority,

the king, that in a rich fringed parament, has been copied from one of his rehels. His samulated right for the placed in the neck of the Baily-lonks. In his right hand he holds the scepter with which he timehes the skull of his passmer, while his kill clutches the ring, this time separated from the rod. The garment of Kashtilish has the vertical folds which often isting ish the halphodan dress from the Assument

The scene is witnessed by the vivice, beside whom stands a Syrum emissary with an Anatolian closerver wearing the typical pointed shoes.

The decoration has been selected in momong the scenes uncovered on the walls of bakult! Numeria spalace that of these paintings has been anitated for a value of woven preferral placed over the side door flanked by two sol hers. The design shows two mythological penes, back to back, one on red and the other on blue.

The left hand of each holds a hasket or howl of gold, with some substance which the right hand now places on the conventionalized pulsa to lend it greater fertility.



12+3 1207 to a "H - Royal Neck I Trea with Mr. Fort, Take a fee two — Yerals of Tukulti-Nimuta I

## The Asserbar Midney Comp Was on Place for Ideas

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If the vitable of a state thay be measured not so much by its size as by its pointible and successful, then the neight of Assertan power was reached in the liter half of the

The present painting is fald desirat a background of waterned chase, respectively the principal occupation and passiting of the committee of a marker of the person of the person of the person of the person of the contract of the choice of a marker of the contract of the choice of a marker of the contract of the choice of a marker of the contract of

Table into a characteristic and authorite physics of the age.

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The typical charlet of this joinal was mounted on six

Against the camp wale, to the left, an attendant is filtering and coulds, water, employing the acme system near by the real coulds, water, employing the acme system near by the real cours, to the trial of the course of the cou

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Approaching the entrance is a group of man correling a Aug Line, They are accompanied by a box with two retractions and a contraction of the contr

Liter, we can obtain fine representatives of these beasts from the sculpture of Ashamasispal and their disciples under Ashamasispal and the state of the first disciples under Ashamasispal and the state of the first disciples under Ashamasispal and the state of the first disciples under the first disciples under the first disciples and th



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One scene departs the interior of the burse of an Assarian of deferming fast "gaine to his fate." The demans of the current tased in Wighter Andrew's reconsists, but of the so-called Red House in Asbur.

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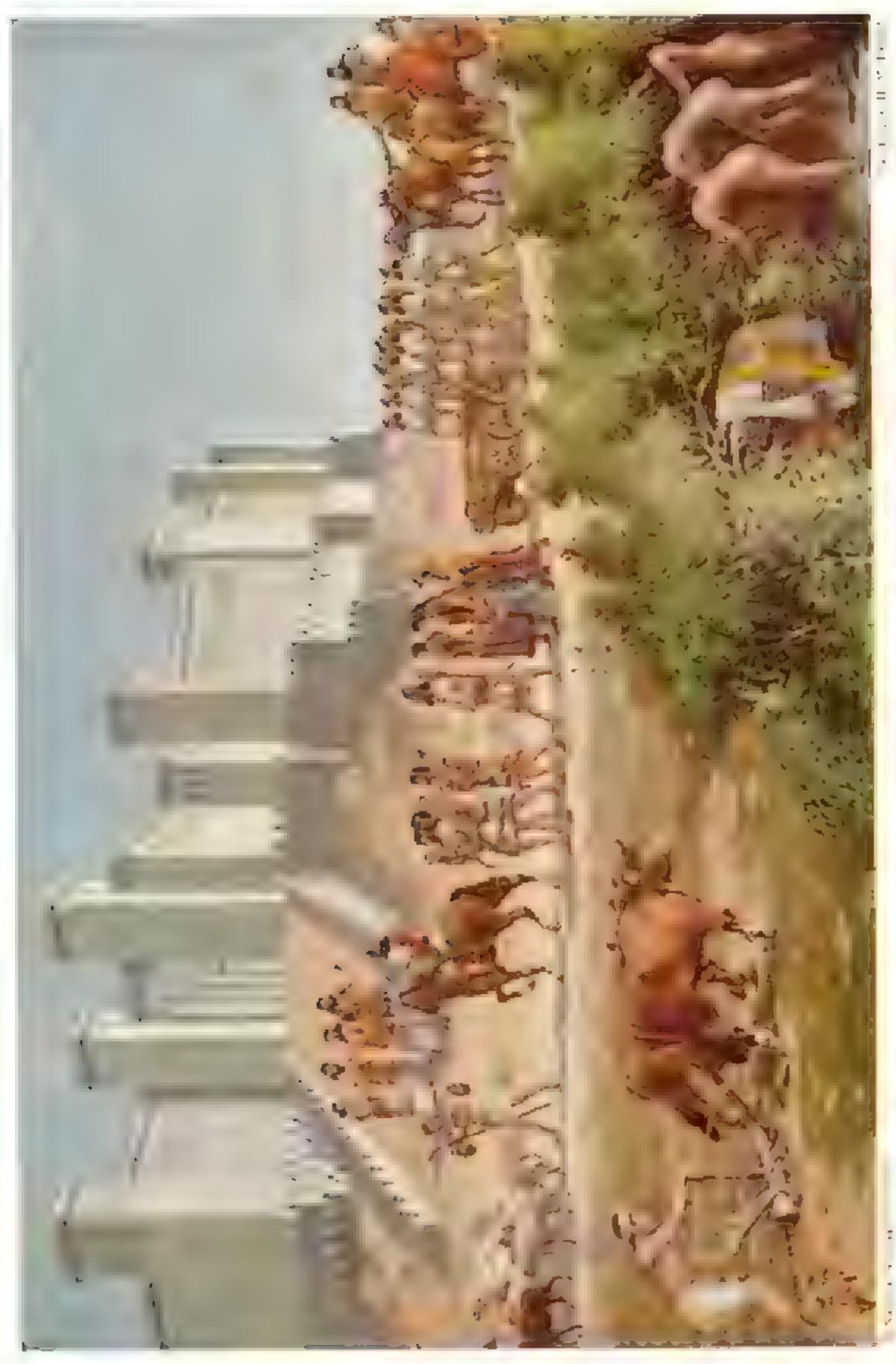
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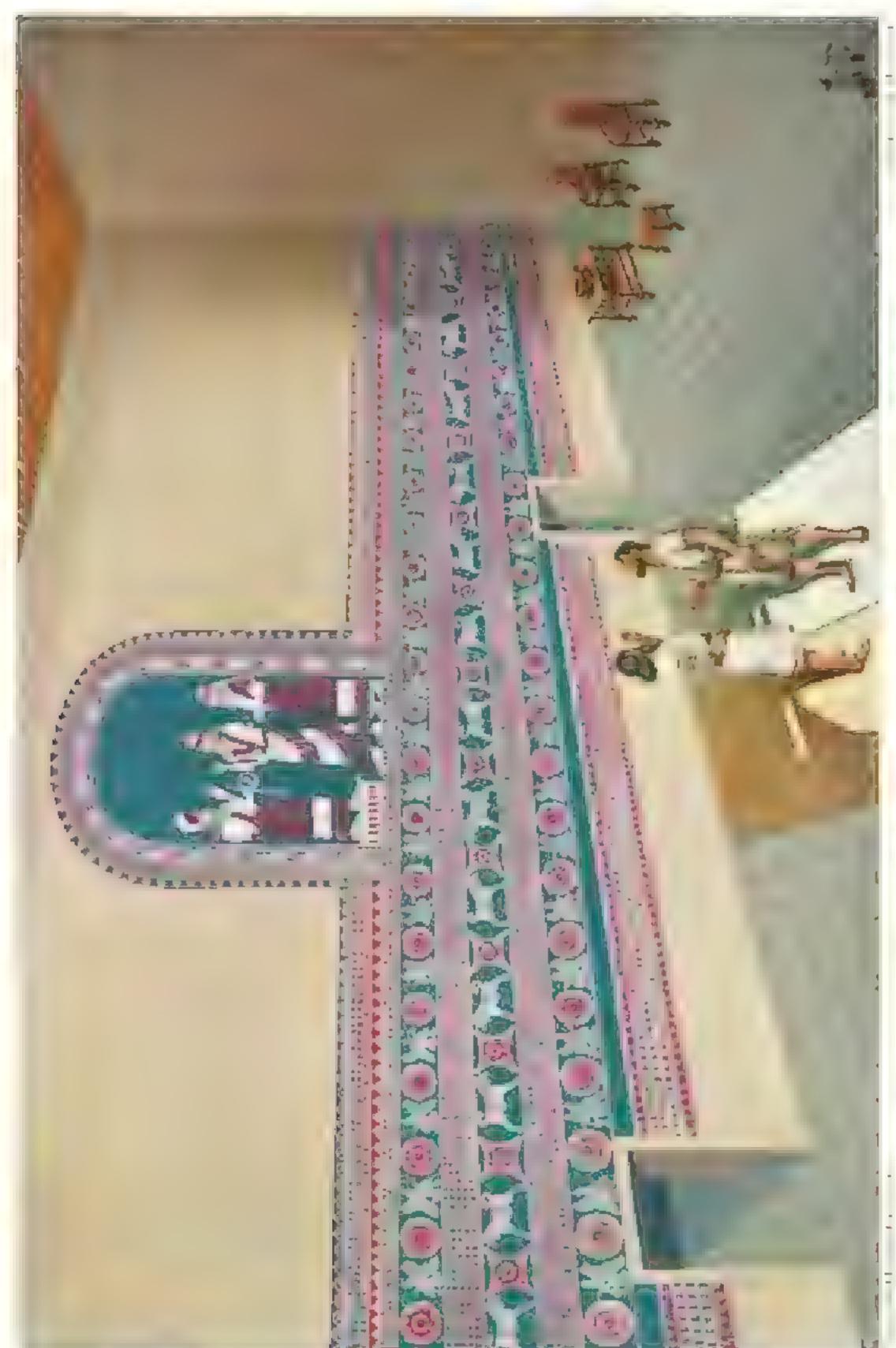
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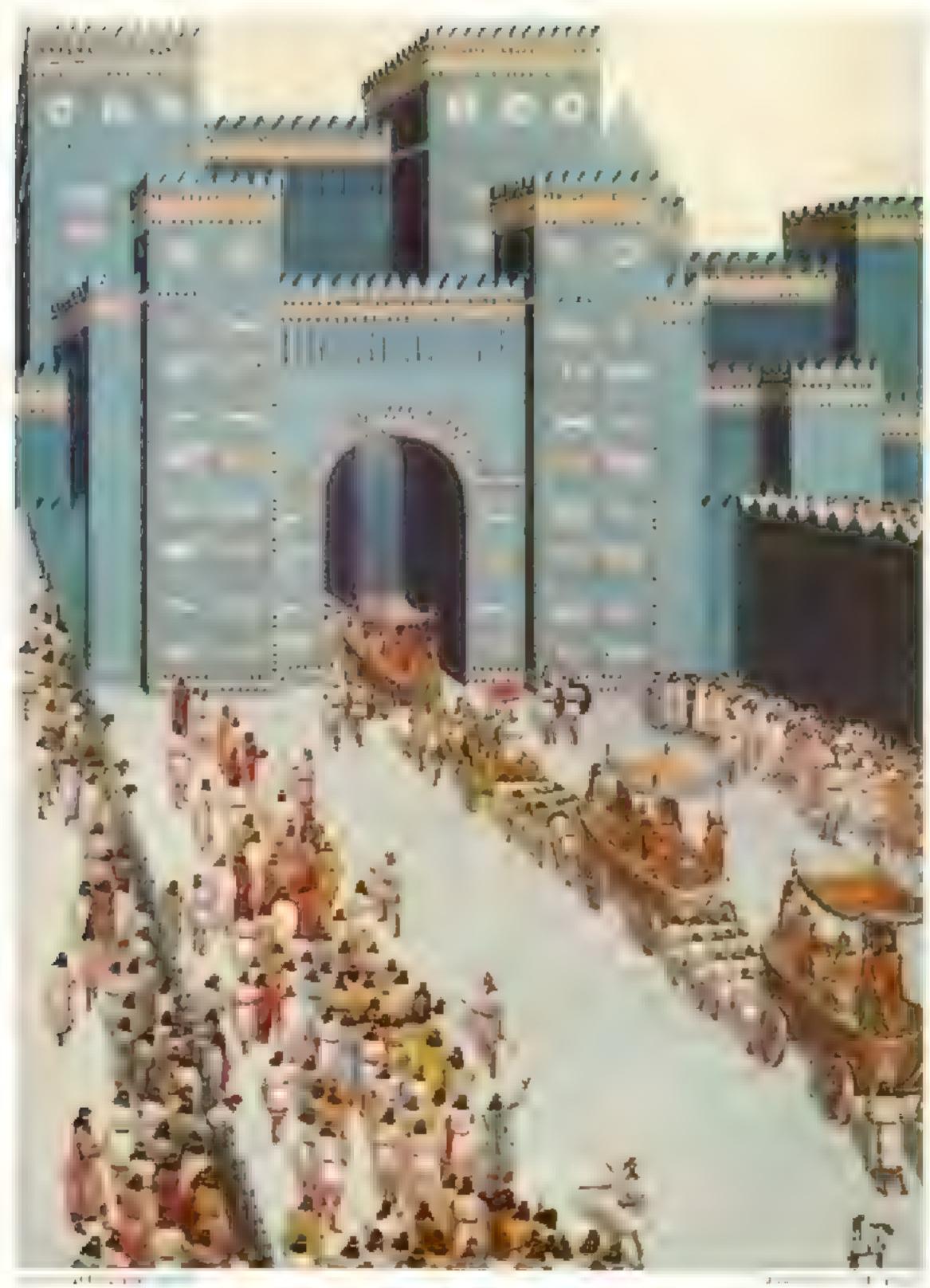
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Take of Nchuchamezzar II to 4-262 it. "By the Side of Ishiar of Babylon and All Babylon Gaza Factual"—A Babylonian New Year's Text

### A Babylonian Procession Greets the New Year

Write Assyrta crushed and Nineveh razed to the ground, Babyon had at last the opportunity to regain the prominence and prestige that had been its let more than a thousand years earlier, during the golden age of Hammirahi Its foodest hopes were realized under the long and a regule of Nebuchadnezzar II.

The Old Testament remembers this sing as the ruthless conquerer who destroyed Jerusalem in 580 s. c. Baby anian history, however, celebrates him primarily as the ton-scienticus administrator and trailess builder who made his capital the greatest city of that time in the world.

To be sure, this brilliance was to be only temporary. Just as the end of Ashurbanipal's reign at Nineveh was separated by only a few years from that city's destruction, mainly at the hunds of the Medes, so was Babylon's glory under Nebu hadnezzar to be followed by the triumph of another transact army, led this time by the great Persian king Cyrus, who incorpied the ancient metropolis in 539 b. c.

The Balcylon whose praises Herodatus sang was the Babylon that Nebochadnezzar had fastnoned. Among
us many emistanding attractions was
the famous Procession Street which
passed under the unforgettably impressive 1shtar Gate. South of the
Ishtar Gate, and along the west side
of the great avenue, could be seen
the fabilities "hanging" mod gardens
and the seven-staged temple tower
the Tower of Babel, some three buttdred feet tall.

The Procession Street got its name from the annual procession of the gods in connection with the New Year's festival. Assembled from all the provinces of the kingdom, the

statues of the principal deities were first moved with someth ceremony and in a rigidly observed order of precedence through the Isatur Gate and out to the parthern outskirts of the city. These they were transferred to boots and taken to the Garden Temple up the river.

Then followed the most dramatic part of the entire cycle, the consummation of the sacred marriage of the principal god and goddess, on which depended the fertility and prosperity of the whole land

turn of the procession, on the electric day of the month of Misan, through the north wide of the Ishtar Gate. The beautifully enameled decoration speaks for itself. The approximate dimensions of the north side of the Gate are 70 feet for the height of the towers and 35 feet for the height of the transled passageway; the worth of the entrance was also at 15 feet. The south end was considerably taller.

The gods are placed in sa-called carriage boats, each decorated with gold, lapis, and carnelian. On the first load rides Marrick, attended by four priests, one at each canopy post. Behind the first loat is the rotal charies drawn by three steeds; on it rate the driver, the king, and the parasol holder.

The second boat carries Marduk's consort, whose crown is summanted by an eight-pointed star. Next comes a boat with the seated figure of the sun-god, Shamash. Hidden from view is a seemingly codless procession of other deities, whose name and rank are supplied by the texts.

The illustration is based on the curvings from Malatya, far north of Babylon. Each major city relativated the festival in much the same way.

### The Merrimack: River of Industry and Romance

By Alter W. Arwoon

I'm I'm I'm rome no be No I had to oright I' madegate B Acht as Stewart

majestic mountains, the Morrows k bearings, before it reaches the sea, one of the bardest worked rivers in the world, a veritable slave in the service of industry,

True, it no longer makes its once provide boust of turning more spindles than any other river, or of he ng the "most rated water power stream in the world." But its banks, in live after city, are still lined with males of numeror malls, have, if aprient and somewhat grim, and still a unjor factor in the sum total of America's productive effort.

but it would be a mistake to think of the Merrimack, past or present, as only a worksaday river. Not only does it present a kaleid ascepit physical diversity, but it branes to mind many of the most romantic aspects of Colonial and early American history; of the struggles of the first scatters; of hence, bloody Indian warfare: of the almost unbelievable wealth of its shad and salmon fisheries; and of ships

ping and shipballding in its lower reaches.

Moreover, the very in hystrialization of the Merrimack stems from the constant, unfailing supply of water which New Hampshire's mountains, forests, and lakes make possible. These at the same time constitute one of the country's foreness vacationlands.\*

### River Born in Profite Lake

In the beart of this land the Merrimack has its assumings in the they Peinkewasset, which flows out of Penalle Lake at the fact of the Oth Man of the Maintains in Francoura Notch, New Hampshire (tage 144).

On one of my visits to Pronocomia Notch bighway crews were clearing the road of bouldets, uproofed trees, and earth. These were the remains of a buse hardshide which, besend by a chudhurs reared down the steep slopes of Mount Lafayette and Eagle Chiff and boried Route No. 3, one of the most important in New England.

The most famous previous shife was that which killed the Willey family—father, mother five children—and two farm hands in the Crawford Noteh in 1826.

It was Nathaniel II outhorne who gave fame both to the Wiley Side and the Old Man of the Mountains t. The sands go to I robbe Lake not to see the source of the Merchank or the lovely Little Lake liself but, fascinated at finding a human face in an inspirate thoug, to gaze 1,200 feet upward at the several myets.

of grante ledges which especially in the lacafternoon light, give the appearance of the profile of a great human face spages 124-1251

Daniel Webster is supposed to have said that a shoemaker hangs out a shoe, a jeweler a writch, and a dentist a gold trath, "but in the mountains of New Hampshire God limighty has bung out a sign to show there He makes men." If owthorne wrote: "It seemed as if an entermose giant, or Than, had sculptured his own likeness on the precipice."

After leaving Profile Lake the Pemigewa ser is a switt little stream, plunging down the steep mountain notch over falls and cascades.

### Thoreau's Description Still True

Mute than a century ago blenty David Thorean, author and paturalist, spoke of it as it first comes "murconving to itself by the base of stately and retired mountains, through moist princtive woods whose Juices it receives, where the best still drinks it, and the cabias of settlers are for between and there are few to cross its stream."

Except for an almost complete absence of wild animals and for the fact that at certain points there are many persons indeed to beness its stream," Thereau's description still holds good.

South of the great mass of the White Mountains Les Lake Winnipesaukee, by far the largest of New Hampshire's 1,300 lakes and ponds (page 137). Its outlet, the Winnipesaukee Rever, jams the Fenngewasset at Franklin, 15 miles to the southwest, to form the Merr mack (map) page 109).

Winniposaukee has nearly 300 Islands and many and steep indentations; the extreme irregularity of its shape is especially evident from an nirplane or from the tops of surrounding relas.

It is so extensively used for recreation that it beasts a registration of searly 2,500 motor-batts. If it first intervallegiate eight orrest boat races in the United States, between Harward and Yale, took place here on August 3, 1852.

When the water in Lance Winnipesankee is low and quiet, and atmospheric conditions fa-

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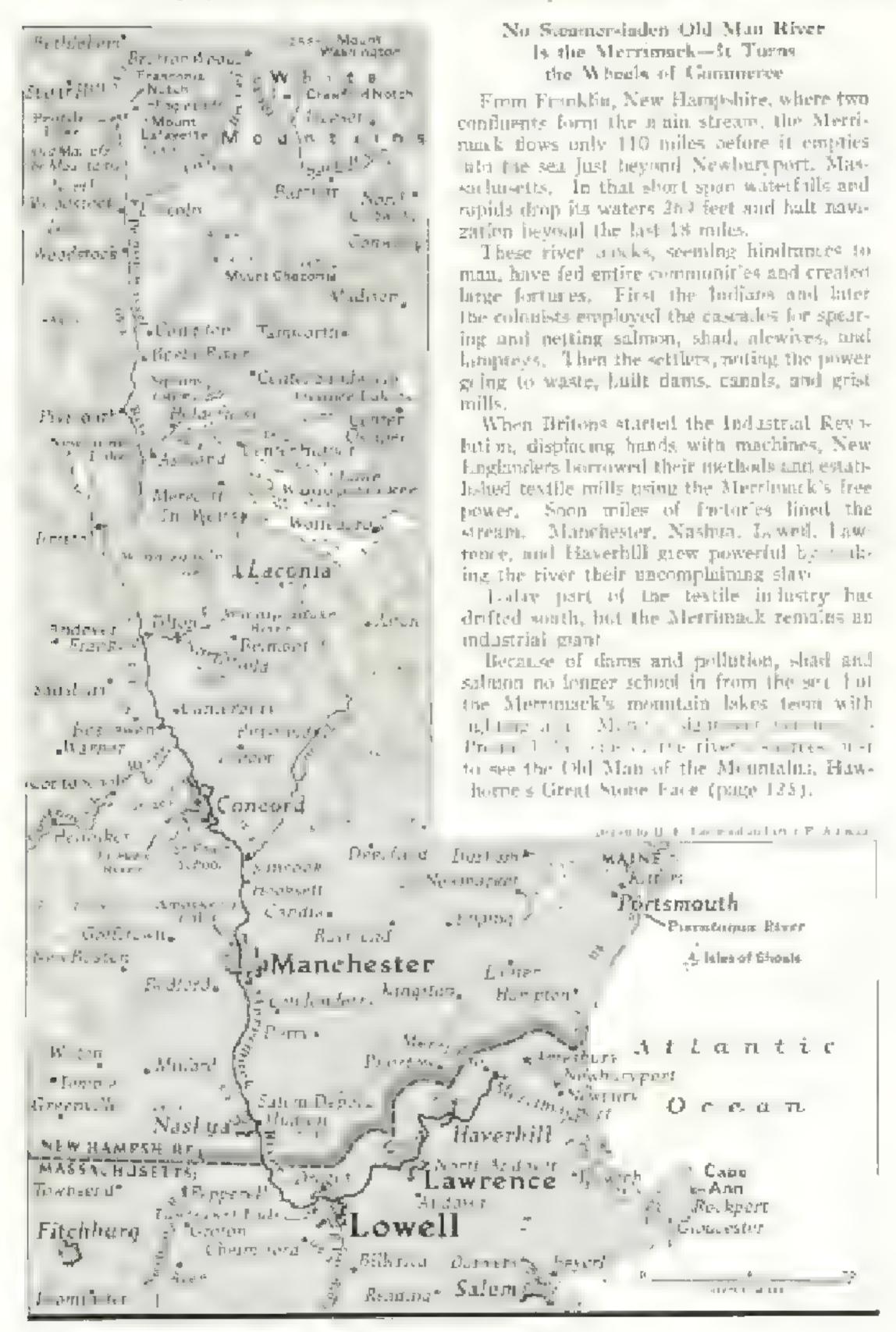
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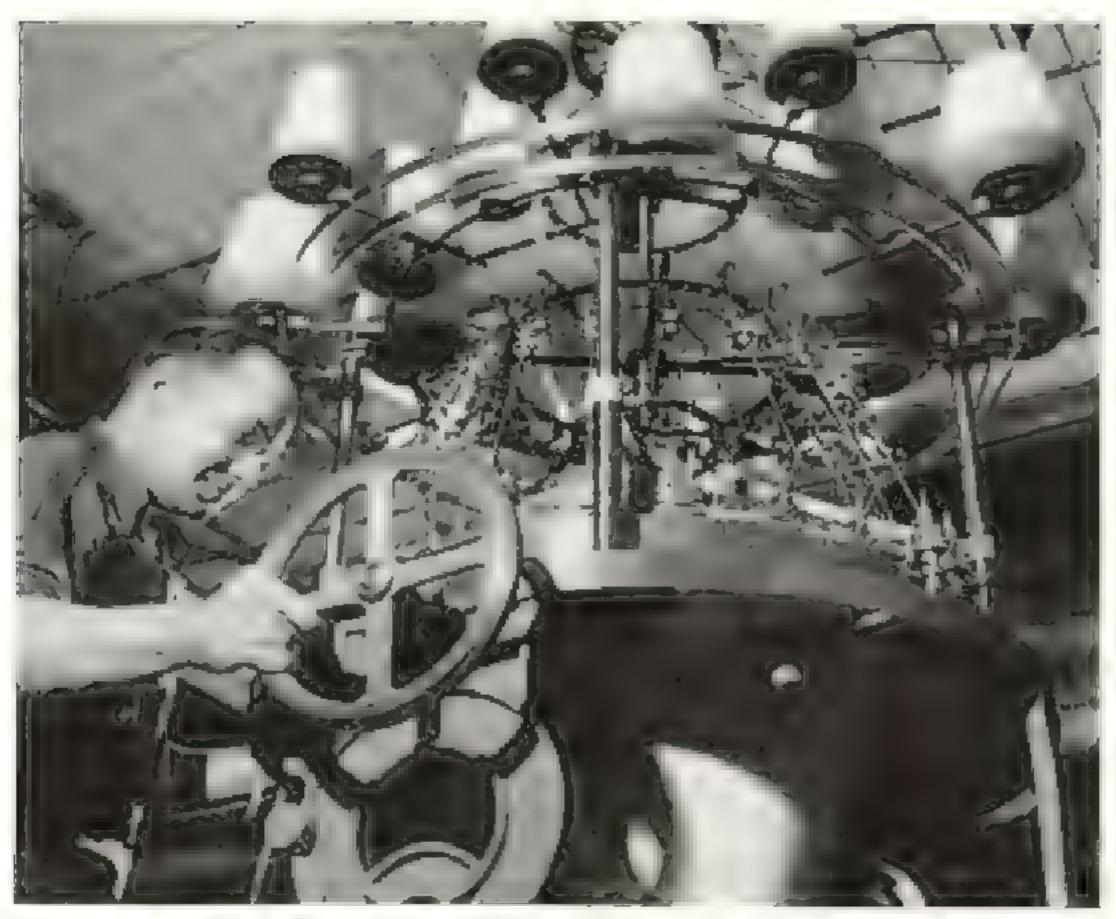


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## New Hampshire Legislature Country's Luciest

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Miners, Bandits, Stage Beauties, and Royalty All Rode the Concard Concar

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John Stark, famous Indian fighter and hero of the battles of Donker Hell and Bernterton, was born on a commanding bloff overle king the falls. The six of his hirthne, the house in which he lived for a namall course, of his grave are relative loss.

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to you have their investment, stockhire in Arabase Industries, Inc., have profited, and, nithough practically liquid and on that the year libself, remain actively in bushness; a civic-minded group rewly with their capital to promote the interests of the community.

## Muschester a Shoemaking Center

One of the country's chief shoemaking centers, in addition to its other manufacturing interests, Manchester is essentially an industrial city. Yet it strikes the observer as tlean, orderly, and law abiding. Much of its population is of French-Canadam descent, and many of the city's mayors have been from this group.

Fifteen miles south of Manchester, on the west bank of the river a few miles from the Massachusetts line, is Nashua, second ranking incustrial city of New Hampshire. As in Manchester, approximately half the popula-

tion is of Franta-American stock.

One modern descendant of an early effort of several Nashun residents to supply the California gold miners of 1849 with playing earls is the Nashun Gummed and Coated Paper Campuoy, known locally as "The Card

 $\mathrm{Shop}_{i}^{m}$ 

It is among the country's large converters of celloplance, cloth, and paper into a wide variety of products for packaging, box muking, and paper specialties. One of its chief products is waxed paper, of major importance, however, only since the invention of the

bread-wrapping machine

At one time the Nashua Manufacturing Company was the largest maker of blankets in the word, giving employment to one-lifth of the city's workers; but a few years ago new owners closed down much of the 125-year old Nashua operation, thus presenting the city with a problem not unlike the earlier one in Manchester

Local business, industrial, and loose leaders organized the non-profit Nashua-New Hampshire Foundation Trust to take over the old buildings, and have succeeded in leasing or selling much of the space to manufacturers of various products, such as shoes, hardware, and

textile machinery parts.

Across the river, three males from Nashua, car Hudson, New Hampshire, is Benson's Wold Animal Farm, combination circus, 200, and omusement park. Roadside 2009 have become an important industry, especially in Florida, but this particular one as of metro-action size, despite its rural location

The late John T. Benson was American agent for the German animal firm of Hagen-beck. He started the farm as a localth resort for show people, but changed it over into a quitautine station for bringing animals into the country from Hagenbeck and selling them.

Curiosity on the part of passing motorists and neighbors early led to charging admission, and the place has long been primarily a commercial show (pages 130 and 131). I visited it on a Monday and learned that 12 000 persons paid admission the day before.

A lew rules below the point where the Merrimack enters Massachi setts it turns eastward toward Practicket Palls (page 117), one of the first water powers in America to be used on an extensive scale to operate power looms." Below the falls it is joined by the Concord

River.

At this site was built the city of Lowell, first instance in America of the del becate creation of a city primarily of the industrial type, although there are others with older established mills.

Miles of canals, which divert water from the data to factory rall wheels, crisscross the city. The chief business district lies within a belt of factories which almost encircles it.

The century-old mills, with their capolas and towers, and the simple but well prepartoned tenements and boardinghouses have about them an architectural dignity that fits into the original ample city plan.

## Beginnings of Cotton Manufacture in America

Franc's Cabet Lowell, among whose descendants were the famous Amy and Percival, went to England in 1810, and, impressed by manufacturing us a source of wealth, returned to this country to give tremendous impetus to cotton manufacturing in America,

It was lilegal to expert models, parts, or even drawings of textile machinery from England, and Lowell had only imperfect recollection of what he had seen. But in Waltham Mussachusetts, he established the first will in this country in which cloth was completely manufactured under one roof. Since more water power was needed for the operation, the Pawin ket Falls on the Merrimack were selected, and the new city built and, nine years after his death, named for Lowell.

Household spinning and weaving were no longer adequate to clube the American people, the Merrunack had plenty of water power. Boston merchants had anyle capital, and an enormalis supply of labor was available in the daughters of Massachusetts and New Househire formers.

Hampshire farmers.

Francis Lowell had been so shocked by the poverty of English mill labor that he instituted a system of community, paternalistic, com-

\*See "Massachusetts—Rechive of Basiness," by William Louis State No. 1 and Louis Massachusetts—Rechive of Basiness," by Massachusetts—Rechive of Basiness, "by Massachusetts—Rechive of Basiness," by Massachusetts—Rechive of Basiness, "by Massachusetts—Rechive of Basiness," by Massachusetts—Rechive of Basiness, "by Massachusetts" by Massachusetts (Basiness, "by Massachusetts") by Massachusetts (Basine



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catastrophe struck,

temperaries did not appreciate the wisdom and force the vision be a genus, and his take was greated with scorn and decision. By some his work was called "Francis's Folly,"

## "Francis's Folly" Saves Lowell

But the engineer was vindicated in 1852 when the gate beloed save the city from flood.

Then in March, 1936, nearly 90 years later, the treacherous Merrimack went on its worst rampage, the gate was lowered and, together with other protective works, held back a 20-loct wall of water, thus saving the city.

La the old office of the Locks and Canals, commiscent of Dickens's description of London of long ago, I looked at portraits of Mr. Francis and of another chief engineer of the company. George W. Whester, father of the famous artist, James McNeill Whistler, whose birthplace, a block away, is open to the public.

On a high bank overlooking the rapids of Pawticket Fulls stands the Lewell Textile Institute, a growing institution, for while old textile mills now it we down in certain localities, the industry as a whole is constantly madening its sweep, with new materials,

new products, and new uses.

The Institute's reputation brings it students from as far away as China, India Turkey, Greece, Egypt, and South America. With extensive pilot plants for vocational training, there is also emphasis upon the fundamental buckground of the busic scences, and sizes upon textile engineering and themistry,

Lawrence, 9 miles beyond Lowell, is another city which wealthy Boston merchant families, headed by a Lawrence rather than a Lowell, made to order, for here was another site where the river could be used over and over again to run the mills. Newer than Lowell, it is a century old at that, but the hage granite blacks of its great dam seem as firm as ever.

## Lawrence Country's Foreness Worsted Center

Lawrence is the country's boremost worsted manufacturing center, tet uning its predominance in this field to a greater extent then other New England cities have kept their outton textile position (page 110).

The Essex Company originally bought the land, laid out the streets, and built the gam, canals, and many of the houses and mills. It still bills a number of the great manufac-

tural gloomerns for the rent of so many "mill powers for one year at 2eO onnes of silver at 900 fine, or the equivalent."

In other words, silver was regarded as the one stable form of payment a century ago, and water power is still being paid for in Lawrence by a number of users in the equivalent of silver.

The Wood Worsted Mill of the American Woolen Company is the largest will in Lawrence and the largest worsted mill in the world. Although only one of more than 20 mills of the American Woolen Company, it uses the annual clip of 200,000 sheep a week, covers 68 acres, employs 7,000 persons, and produces 6,000 miles of cloth a year, as well as providing year and top for other mills of the company.

But the mills of the American Wesler Company are not the only monsters of their kind in Lawrence; the Pacific Mills (page 116) and the Arlington Division of William Whitman Company, Inc., are large producers of worsteds. In fact, the Arlington mills use

the ficere of 28.000 sheep per day.

Lawrence has had its tragedies. On January 10, 1860, the Pemberton Mill, with 900 employees, collapsed without warning, all ing

88 outfight and injuring many

Since the fur-famed and disastrous strike of the Industrial Workets of the World in 1912, labor conditions seem to have been peaceful, and the Americanization of Lawrence's enormous foreign population has gone on apace, mentions of second generation Italian stock occupying high positions in the professional and business life of the city.

Despite its large industries and population. Lawtence covers a very small area. Fortunately many of the mill workers live in rutal or semi-tural surroundings in pear-ty-

lowns.

## Maker of National Groomaring Paper

An important Lawrence industry is the Champion-International Company, which long has enjoyed the reputation of making the alphest quality of coated paper (pages 132 and 133). Among its customers is the Natural Geographic Society, which uses upwards of 120 freight carloads a year, or nearly 11,000 tons.

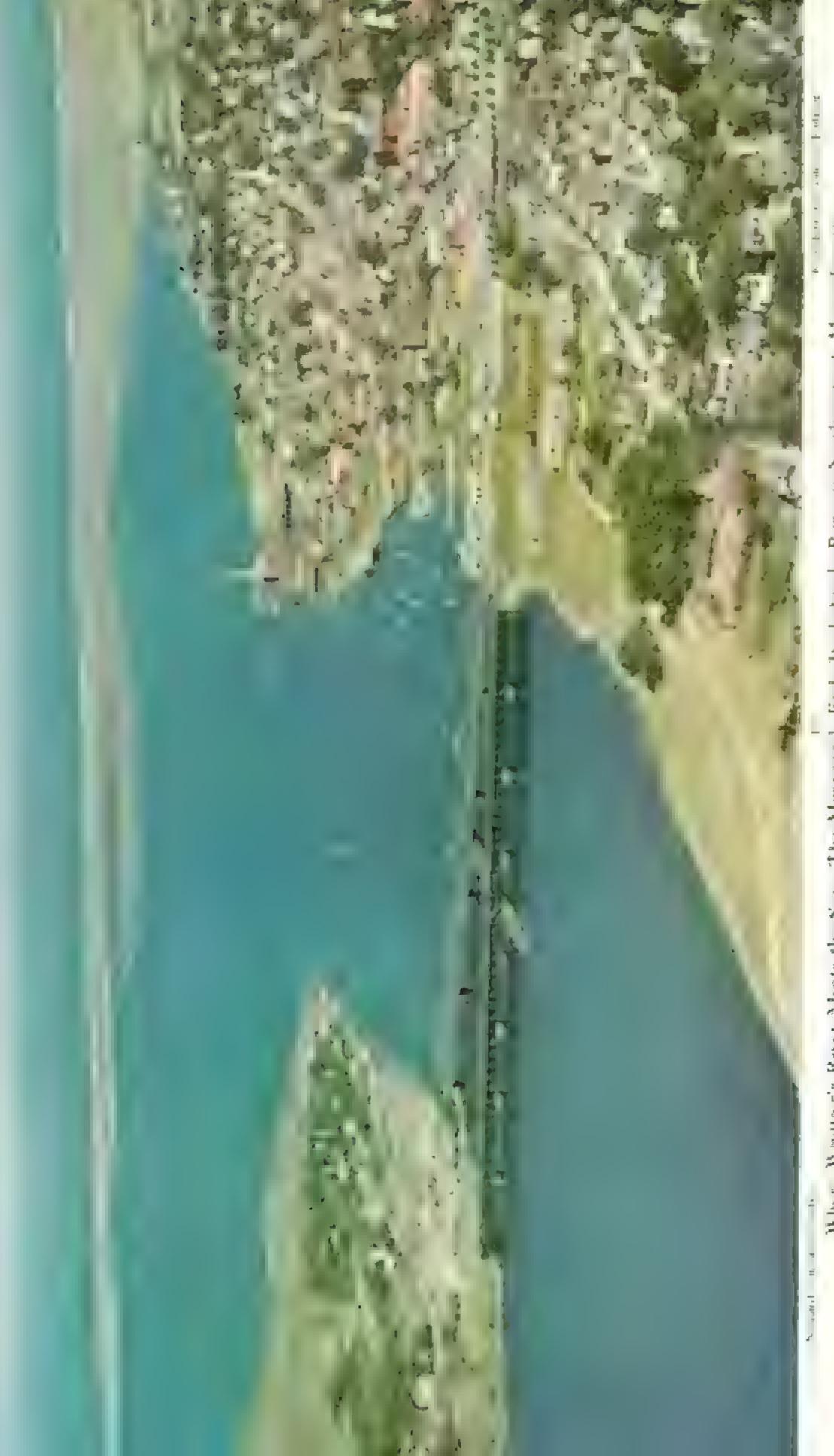
The National Georgaphic Magazine was one of the first periodicula to use a superior quality of coated paper, and such paper has contributed largely to the unsurpassed reproduction of its likestraticus in color and black and white and to its typographical appearance.

In fact, the National Geographic ploneered in the use of fine conted paper for every



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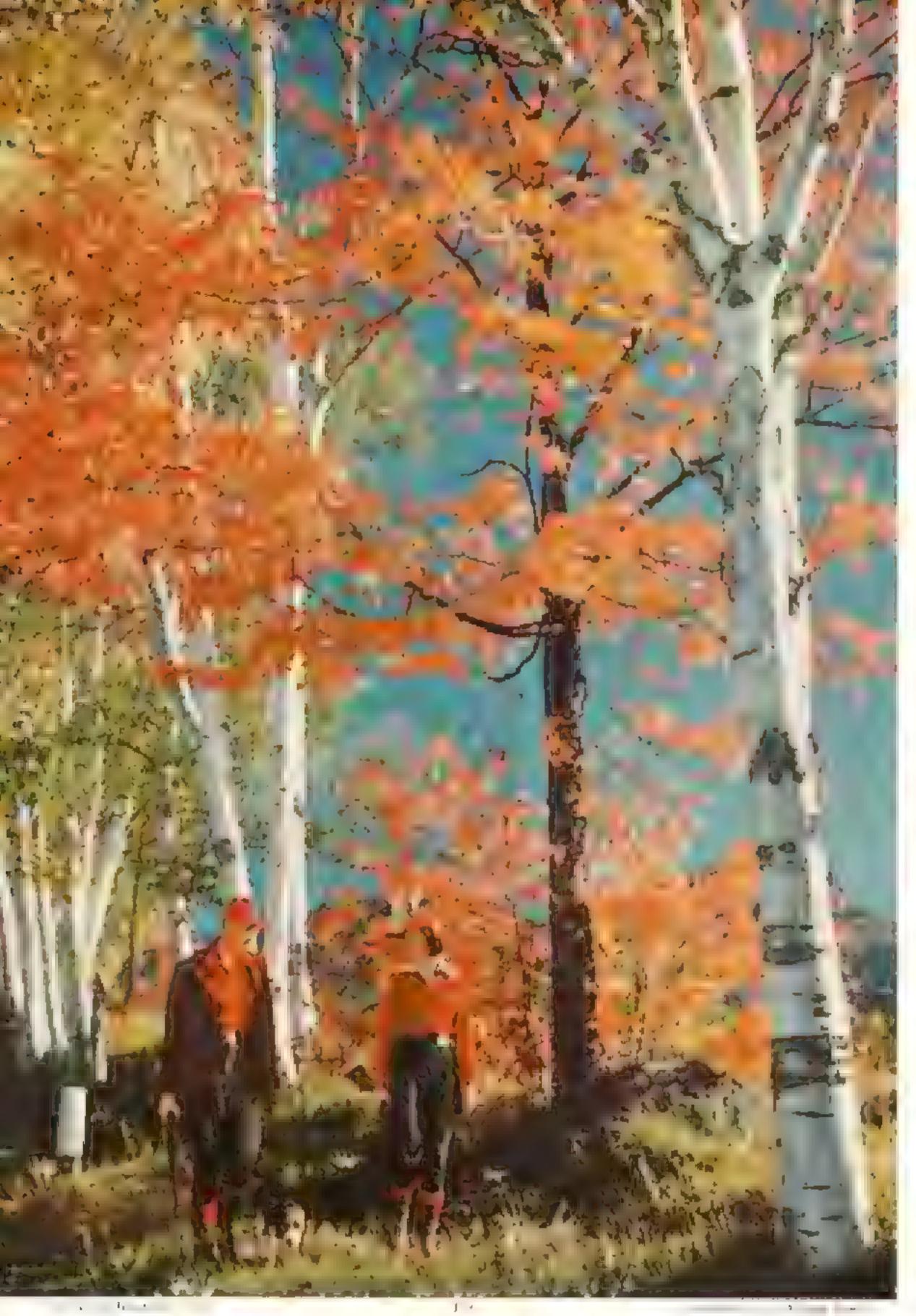
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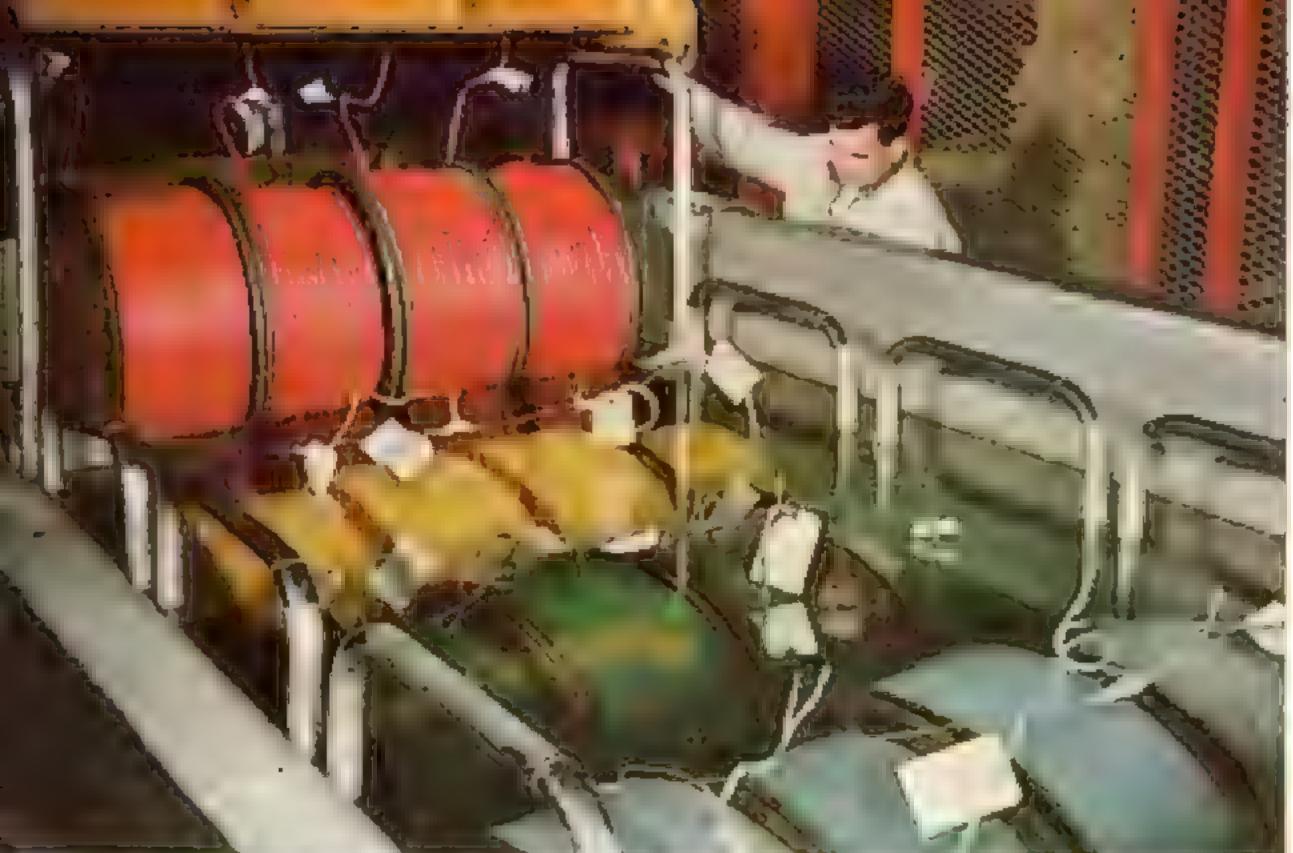


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page-text, illustrations, and advertisements

The National Geographic Society has a toget is paper from the Champion-Inter-

national Company since 1913.

Are as the river in near-by North Andover I called on two granddaughters of Capt. Nathaniel Stevens, who started a woolen mill here in 1813. In fact, fourth and fifth genetation descendants of Captain Nat new runther successor company. J. P. Stevens & Contpuny, Inc., which operates more than 30 woolen, worsted, cotton, and rayon mills in different parts of the country and is one of the largest textile manufacturing companies in the world.

Between 1800 and 1811 many worlen mills were started as family enterprises. Each depress to full without, or the sons went into other occupations. By 1918 only three families one of them the Stevens, curried on mills their foreboars had started. Since then the stevens have bought out the other two family interests.

Andover, which adjoins North Andover, is the seat of one of the two Phillips academies, which have played such a notable rule of American Lie, the other being at Exeter, New Hampshire, 10 miles north of the Merrimack.

## Phillips Academies Founded During Revolution

Both schools were founded during the American Revolution by the wealthy and patriotic Phillips family. Andover, slightly the older of the two, was founded to be more Phillips and his brother John, large the instance of Samuel Phillips, jr., then only 26 years old and one of the few original made in American education. John Phillips for aded 1 vol. 1

The two schools have a few slight differences and many striking similarities. Andover has a headmaster. Exeter a principal. Andover "hall" teads toward a degrated elegant beauty space 121). Exeter's beauty partakes more of the quiet, homey simplicity of a small, electroshaded New England towards.

But the balkings of hoth semols are finer and the compases more extensive than three of many colleges and taniversities. Both have had great benefactors and each has a large endowment, low cost of thitam, many scholarships, large alumni body, large an clean body, and each draws from a broad section of the papalation, socially and geographically,

Both also have bud many fam we graduates: Oliver Wendell Holmes and Samuel E. B. Morse went to Andover; Daniel Welster's father took him to Exeter on borschack. Each prepares for substantally the same universi-

Used now as the Andover deta's house is the long-time home of Harriet Reecher Stowe, author of Linde Tom's Cabin. On Main Street is the house, also the property of the Atademy, in which a theological student, Somuck F. Smith, wrote America.

Young Smith earnest his way by translating poems and sough. A musician sent him a patriotic song, necempaned by the mesti. While humming over the masic Smith decides to write a patriotic song of his own, and dashed off the verses of America, virtually as they are now, in less than half an hour.

Seven notes from Lawrence is another industrial river city, Havernall, shoe manufacturing center for 150 years, and still a center for tromen's shoes especially the inespensive, novelty type—a highly competitive, fluctuat

ing husiness (apposite).

This is a very old settlement. The original Indian deed of 1642 may be seen in the archives of the Haverhill Hustorical Society: also the Haverhill petition of 1842, asking for the descolution of the Union, this beging been a short-lived attempt to meet Southern seves stanists on their news ground

R. H. Macy, who founded the great New York department store, began his business in Haverhill in 1851, and at that early date

advertised bargains,

For more than half a century in early days blaverbill settlers tilled their fields with muskets always handy and a wary eye for attacking Indians; there was even talk of abandoning the settlement.

On Ma ch 15, 1697. Therms Daston was working on his farm when hostile Indians attacked. His wife, Hannah, had given bitth to a child only a few days before and lay is col. He tried to rescue her, but the Indians got between him and the house. Exchanging fire with them, he shepherded his other seven children, two to seventeen years old, to the peacest earnson.

The Indians went off with Hannah, her nurse, Mary Neff, and the h fant, whom, however, they quickly killed. Hannah and Mary were taken to a small island in the Merranack River, a few miles north of Concord, where there were 12 Indians and a young captive 14 year old. Samuel Leonardson, who had learned to speak the Indian dialect. Hannah instructed him to find out from the Indians the easiest way to kill and scalp a person.

One night the flater captives, led by Hannah, killed and scalpad 10 of the Indians, escaped and eventually reached Haverball. Considered by many an importbable tale, the story has



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As a matter of fact, it is only his semiretirement, especially after the Civil War, that gives as the picture of the "good, gray part, to the man with a long, white bears. In a secret years Whittier was the supremely restored to e-1 --, and effective anti-lavery editor and agitato a He exerted an influence upon American the shield it is deficult to find a coreper a surpre among poets.

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uting cause of the Revolution.

So valuable were some or the logs for masts that the less of a single one could almost ruin its owner. At any rate Haverhal, at the head of navigation, in I Amesically, and Newlinport, near the mouth of the siver, constituted in and after Revolutionary times one of New England's chief shir book line centers. At least 1,115 vessels were built in these three comandles between 1793 and 1515

#### Birthpluce of Frighte Alliance

The most factors of a lift in the area was the Caratrophial It is a literature, which thek part in the last sea fight of the Revolution. A few hand had, small hours are and make in s are in the vacanity (page 125)

At one time great numbers of carriages, n ded for «tyle and finish, were built in Ames. bary and mar-by Merrimac, Automobile wises were made for a shart time, but that in an fire of the speaking took in 1979,

One of Amedotry's thit adustries has continued and grown. Here is the healig arters of the Merriman Bat Corporation, whose plants in Amedotry and elsewhere tren on-12 nuflion but bodies and trimmed buts in a single year (page 129)

Late in summer I note along the unfrequented River and Pleasant Valley Roads between Merrimacport and Amesbury, both shores of the river ablaze with purple bases

attife and goldenrod

The river is, beyond question, seriously polluted by chemicals from hundreds of mills, but the banks, even near the great industrial cities, are singularly green and auspoiled. Whitter, who looked assauce upon his valley's rapid in lastrialization, would be happy to snow that this much, at least, is saved.

Newhork port, three miles from the mouth of the Merrica k, is long and narrow out cons parallel to the river. Those who lived to the northwestern portion of this historic strip long were known as "upalongers" and those who lived in the other direction as

"downmongers."

When it was separated from ancient New-bury in 1764. Newburyport was the smallest town in area in Massachusetts; indeed the jac se saying went that there was no place in the city 'from which a strong timest cannot reach the river in three minutes."

Along the patite length of High Street, which runs several miles from one end of the city to the other, is perhaps the largest and most notable collection of square, well-proportioned, three-story 18th-century bouses to be found anywhere in the country (page 122).

Similar houses are to be found elsewhere, but newhere else are they more beautifully on parade, with their deep Lawns and many trees. It any rate, the city maintains an unusational deviate of long-gone marit me greatness, perhaps because much of it is so well preserved that memories of the "wealth, taste, and elepance" noted by famous early visitors still linger.

## Famous Sons of Newburyport

Hoston drew several of its great families, including the Lowells, from Newturyport, and namerous famous men were large, lived or led there.

Among these were William Lloyd Garrison, the aboliconist: May, Gen. A. W. Greely, distinguished Arctic explicit, one of the founders of the National Geographic Society of for 47 years a member of its Board of Trustees; and Dr. Elwin A. Grosvenor, historian, linguist, preheologist, author, and poet and father of Dr. Golbert Grosvenor,

President of the National Geographic Society.

In a vault under the First I restrict of Charch are the remains of George Whitefield, who ranked close to John Wesley as a preponent of Mothodism. He preached 18,000 sermons, and the founding of such colleges as Princeton Dartman, h, far wit, and Rutzers was partly due to the "Great Awakening" he has red

on Henry Bailey Little, then 97 years old and for 50 years president of the Newbury port Institution for Savings. Asked if it were true that he goes to the bank every day, he replied in tather a half, "I can only come five days a week because the bank is closed on Saturday.

a great mistake."

## Silver Company Descended from Blacksmith

The little old city has one very large and active industry near the river, the Towle Manufacturing Company, with 200 employees, engaged in making steering silver (page 129). This business has increased several fold in the last 10 years as larger and larger segments of the feminine population buy fine silver, storing being as nearly solid silver as will stand wear and tear.

There are some 80 processes in the long operation of making a knife, fork, or spoon. The first is to cut blanks from great slabs of silver, and the last is naturally the final

polishing.

The Towle Manufacturing Company is the direct successor of one William Moulton, who in 1000 set up as a black-and-white smith in Newbury, which means that in addition to the usual blackspith work he fashioned metals, inch ding silver

For more than a century the Merrinack has been the very symbol of a prosaic, batch working river, the drudge of infastry. Yet much of its course, from mountain to sea, is marked by charm and actual beauty, now even as in the days of the early settlers.

Passing Newburyport, the river broadens out, and before it flows between two breakunters into the sea, it is flanked by fur-floor salt marshes, on the north and south shores

s ke.

Whither spoke of seeing "The far, low coastline stretch away to where our river meets the sea," and us the last few months of his long life neared their end be gazed more and more upon the screne beauty of these great salt

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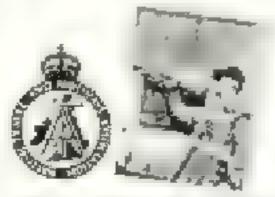
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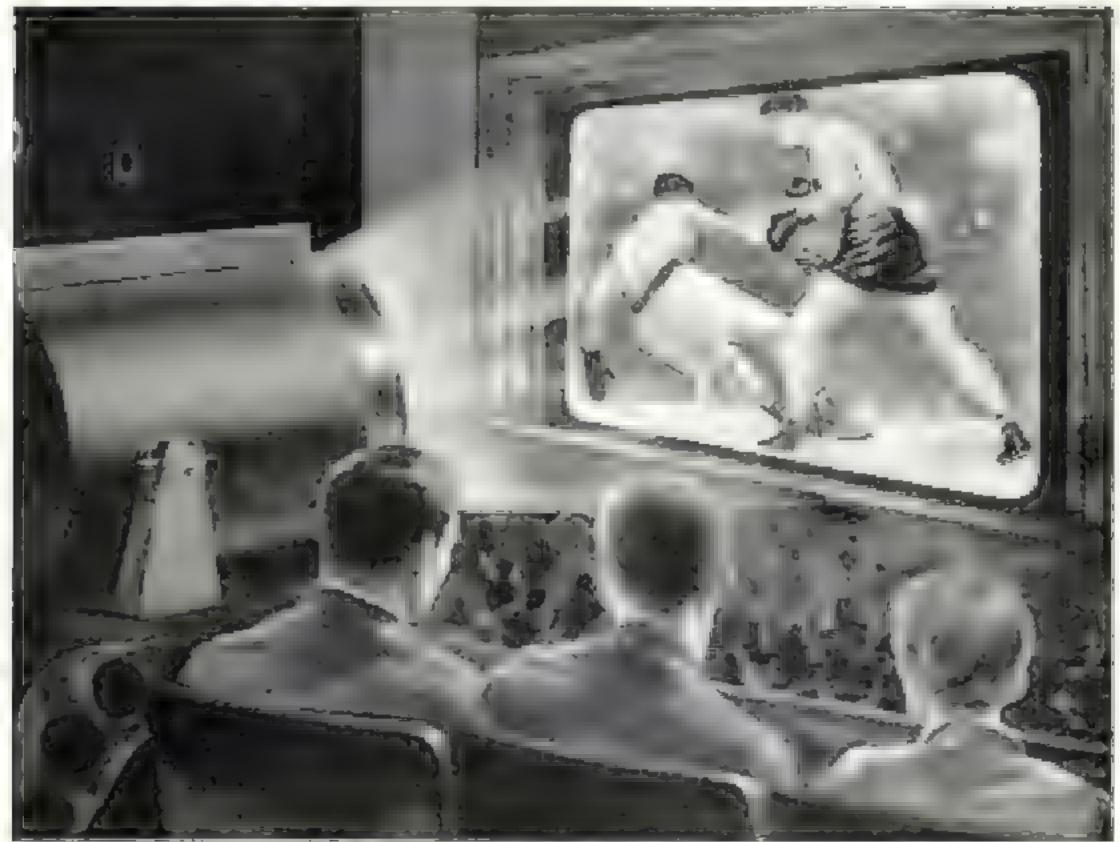


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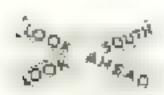
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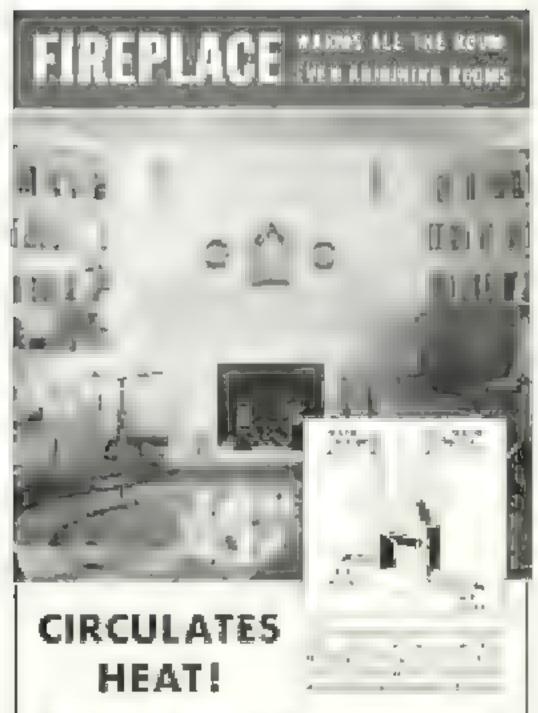
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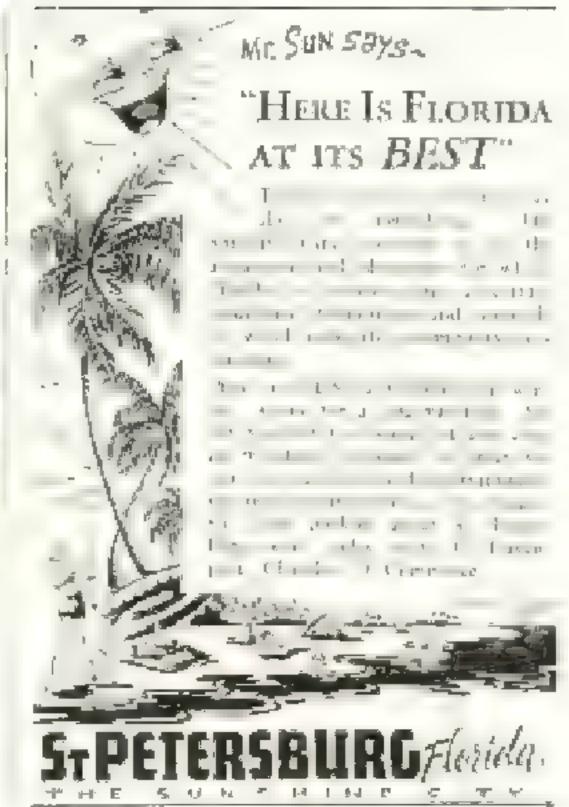
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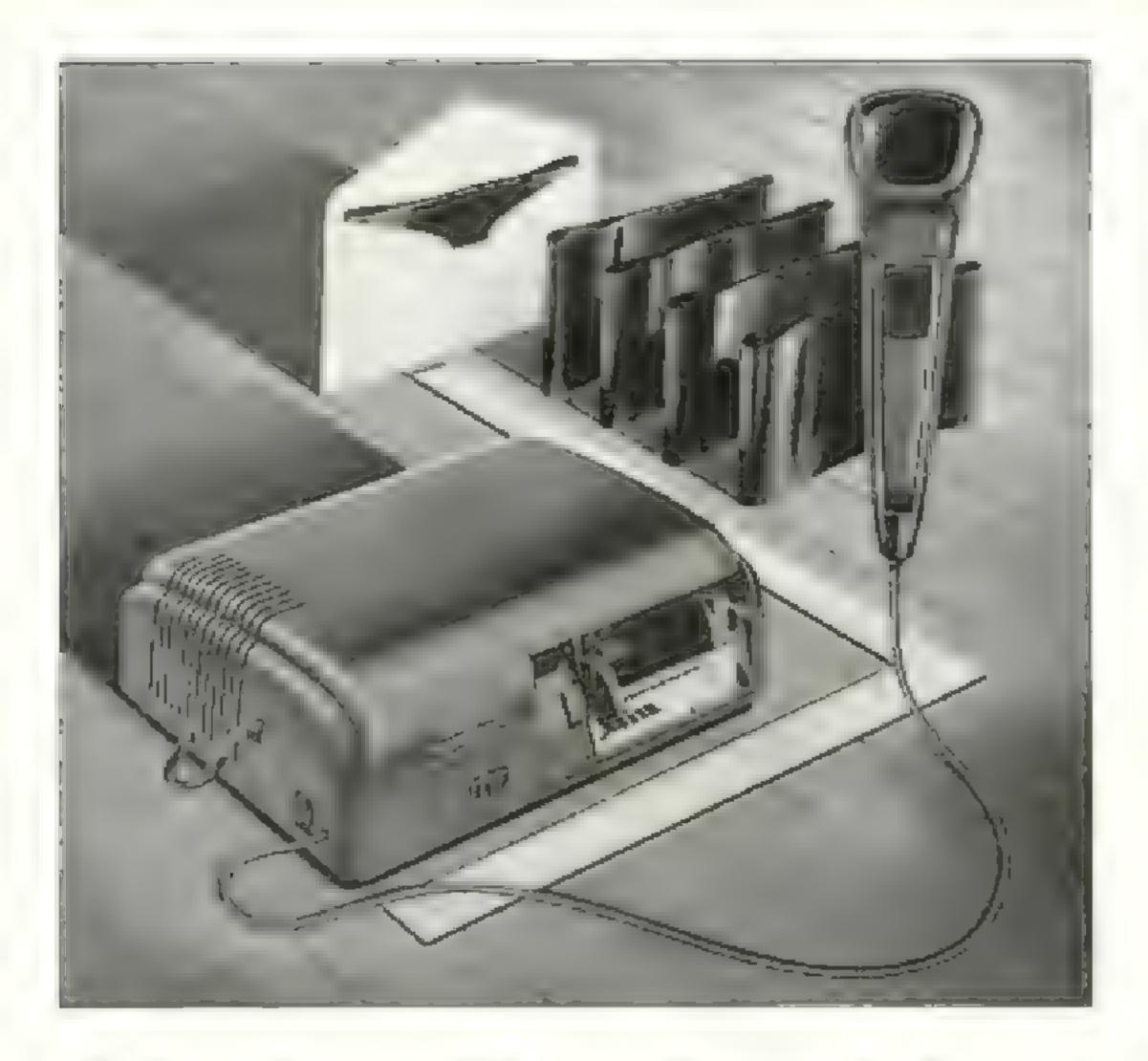


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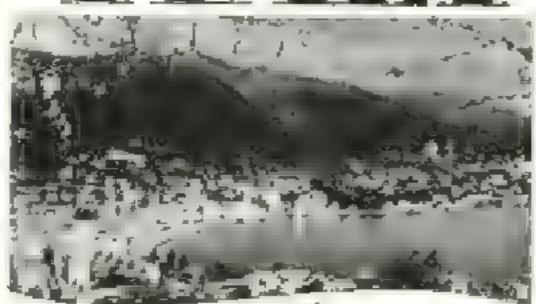
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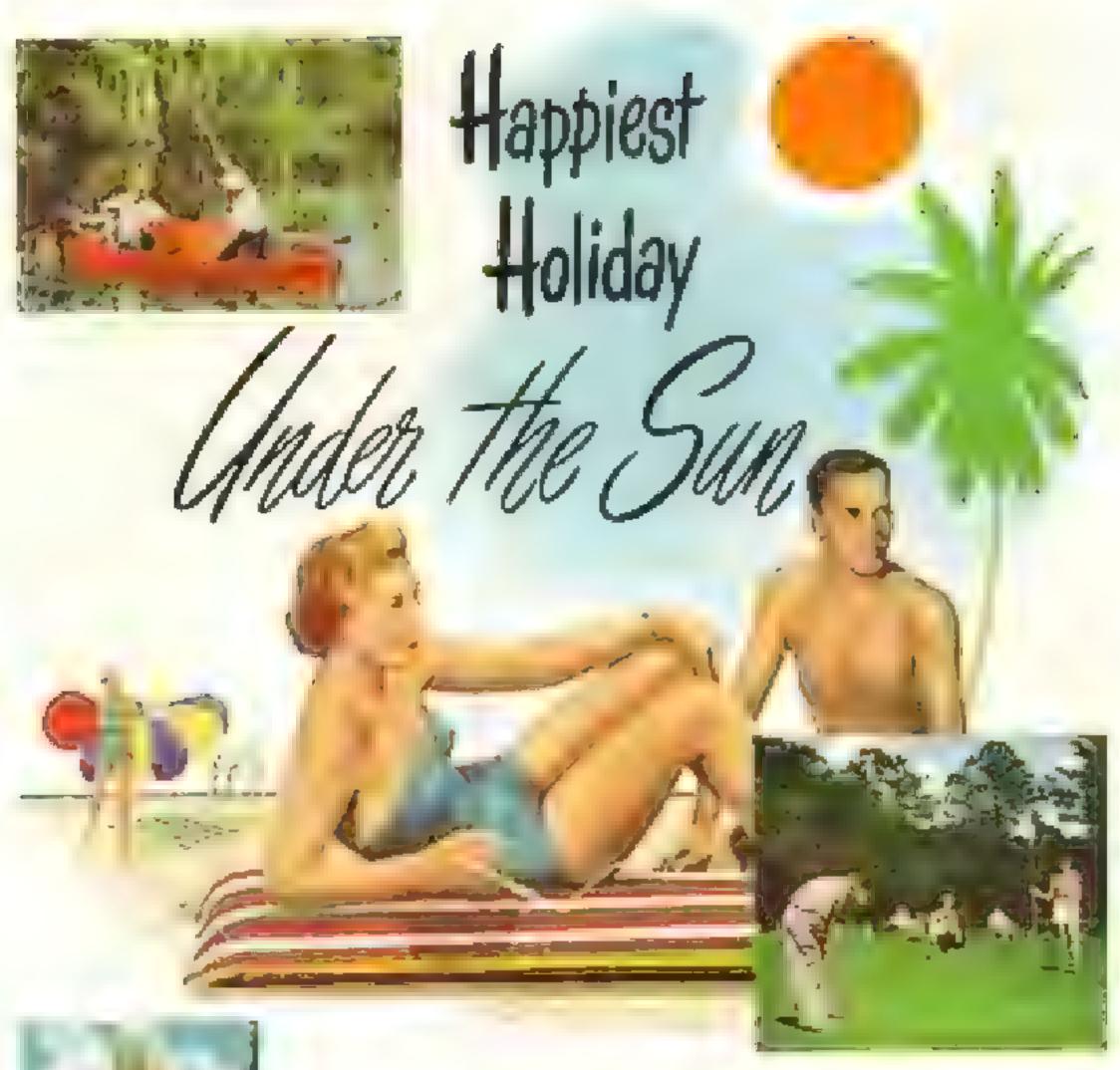


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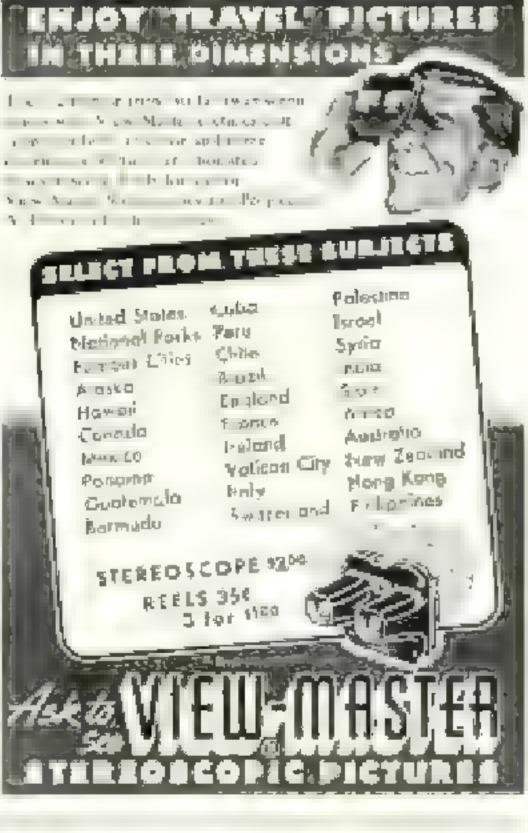
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RESULT: Promounts at in, and he fore several necks' time from work.

#### This Woman Didn't...



This warms caught needd.... when her temperature went up she called the doctor promptly ... and followed his accord.

RESULT: The cold element up, and the was back on the job in there days.

To speed recovery from a cold and to help relieve disconfine, dectors recommend rest and a light notion hing diet, including painty of water and fruit paints. This helps the body overcome the infection.

The danger of neg certing a cold lies chiefly at the fact that body resistance is lowered and senous infections may decelop.

Priestmonia, especially, is likely to stake when a person is tired of run-down because of a perusions cold. In fact, it has been estimated that could are the starting point for nane out of less cases of presumania.

Although the death rate for pneumon a has been ; early reduced, this disease—and is ally, inflorests—still claim object \*0,000 lives each year in our country. Authorates say that the toll from preumona could be reduced still further if everyone would call the doctor immediately if any of these symptoms appears:

A severe shaking chill fallowed by fever.

Fair in the chest after combing or deep breathing.

Coughing, particularly with the appearance of rast colored spatum,

If presentents is discovered early, the chances for tapid recovery are main better now than in the

past. This is because the new drugs which doctors preser be mainly are most effective when given at the start of the disease.

Immunication against some types of influenza and pregnantia has akewise helped to combut these discusses. Other respiratory a linears have also been brought coder better control.

While medical science can now bring about more and quicker recoveres from the chief writer quiments, it is were to provid against town. Those meansure may help:

Always take care of a cold promptly . . . if fover develops, on in doctor of once.

Keep physically lit, particularly during the wrater months.

Get cuttlefent eest and sleep and est a bulanced dully duet.

Deers warmly when going out-of-doors, especially during dump, inclement weather.

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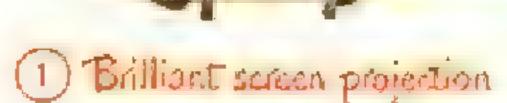
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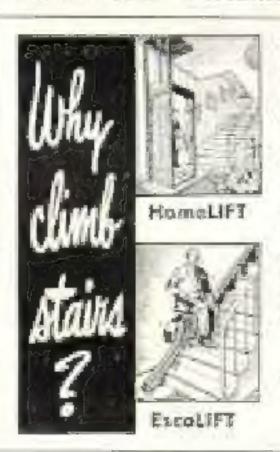


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